ADMINISTRATION REPORT

OF THE

INDIAN STORES DEPARTMENT

FOR THE YEAR

1936-37.

PUBLISHED BY THE MANAGER OF PUBLICATIONS, DELHI.
PRINTED BY THE MANAGER, GOVERNMENT OF INDIA PRESS, SIMLA.
1937

Price : Rs. 2-12-0 or 5s.

ADMINISTRATION REPORT

OF THE

INDIAN STORES DEPARTMENT

FOR THE YEAR

1936-37.



PUBLISHED BY THE MANAGER OF PUBLICATIONS, DELHI.
PRINTED BY THE MANAGER, GOVERNMENT OF INDIA PRESS, SIMLA.
1937

List of Agents in India from whom Government of India Publications are available.

(*a*) PROVINCIAL GOVERNMENT BOOK DEPOTS.

MADRAS :—Superintendent, Government Press, Mount Road, Madras.

BOMBAY :—Superintendent, Government Printing and Stationery, Queen's Road, Bombay.

SIND :—Manager, Sind Government Book Depot and Record Office, Karachi (Sadar).

UNITED PROVINCES :—Superintendent, Government Press, Allahabad.

PUNJAB :—Superintendent, Government Printing, Punjab, Lahore.

CENTRAL PROVINCES :—Superintendent, Government Printing, Central Provinces, Nagpur.

ASSAM :—Superintendent, Assam Secretariat Press, Shillong.

BIHAR :—Superintendent, Government Printing, P. O. Gulzarbagh, Patna.

NORTH-WEST FRONTIER PROVINCE :—Manager, Government Printing and Stationery, Peshawar.

ORISSA :—Press Officer, Secretariat, Cuttack.

(*b*) PRIVATE BOOKSELLERS.

Advani Bros., P. O. Box 100, Cawnpore.
Aero Stores, Karachi *.
Banthiya & Co., Ltd., Station Road, Ajmer.
Bengal Flying Club, Dum Dum Cantt.*
Bhawnani & Sons, New Delhi.
Bhatia Book Depôt, Sadar Bazar, Ranikhett.
Book Company, Calcutta.
Booklover's Resort, Taikad, Trivandrum, South India.
Burma Book Club, Ltd., Rangoon.
Butterworth & Co. (India), Ltd., Calcutta.
Chatterjee & Co., 3, Bacharam Chatterjee Lane, Calcutta.
Chukervertty, Chatterjee & Co., Ltd., 15, College Square, Calcutta.
City Book Club, 98, Phayre Street, Rangoon.
Das Gupta & Co., 54/3, College Street, Calcutta.
Delhi and U. P. Flying Club, Ltd., Delhi.*
English Book Depot, Ferozepore.
English Book Depot, Taj Road, Agra.
English Bookstall, Karachi.
English Book Store, Abbottabad, N. W. F. P.
Fakir Chand Marwah, Peshawar Cantt.
Fono Book Agency, Simla.
Gautama Brothers & Co., Ltd., Meston Road, Cawnpore.
Higginbothams, Madras.
Hindu Library, 137/F, Balaram De Street, Calcutta.
Hyderabad Book Depot, Chaderghat, Hyderabad (Deccan).
Imperial Book Depot and Press, near Jama Masjid (Machhliwalan), Delhi.
Indian Army Book Depot, Dayalbagh, Agra.
Indian Book Shop, Benares City.
Indian School Supply Depot, Central Avenue, South, P. O. Dharamtola, Calcutta.
Insurance Publicity Co., Ltd., Lahore.
International Book Service, Poona 4.
Jacques & Co., Kamptee Road, Nagpur, Messrs. Neston.
Jaina & Bros., Mori Gate, Delhi, and Connaught Place, New Delhi, Messrs. J. M.
Kamala Book Depot, 15, College Square, Calcutta.
Karnataka Publishing House, Bangalore City.
Keale & Co., Karachi.
Keshao Book Stall, Khadi Bazar, Belgaum.
Kitabistan, 17-A, City Road, Allahabad.
Krishnaswami & Co., Teppakulam P. O., Trichinopoly Fort, Messrs. S.
Lahiri & Co. Calcutta, Messrs. S. K.
Local Self-Govt. Institute, Bombay.
London Book Co. (India), Arbab Road, Peshawar, Murree, Nowshera, Rawalpindi.
Malik & Sons, Sialkot City.
Mathur, B. S., Bookseller, Civil Lines, Jodhpur.
Messrs. The London Book House, 17, Rajpur Road, Dehra Dun.
Messrs. U. P. Malhotra & Co., Post Box No. 94, Lahore.
Minerva Book Shop, Anarkali Street, Lahore.
Modern Book Depot, Bazar Road, Sialkot Cantonment.
Modern Book Depot, Napier Road, Jullundur Cantt., and Careers, Mohini Road, Lahore.
Mohanlal Dossabhai Shah, Rajkot.
Nandkishore & Bros., Chowk, Benares City.
New Book Co., " Kitab Mahal ", 192, Hornby Road, Bombay.
Newman & Co., Ltd., Calcutta, Messrs. W.
Oxford Book and Stationery Company, Delhi, Lahore, Simla, Meerut and Calcutta.
Parikh & Co., Baroda, Messrs. B.
Pioneer Book Supply Co., 20, Shib Narayan Das Lane, Calcutta, and 219, Cloth Market, Delhi.
Popular Book Depot, Grant Road, Bombay.
Punjab Religious Book Society, Lahore.
Raghunath Prasad & Sons, Patna City.
Rama Krishna & Sons, Booksellers, Anarkali, Lahore.
Ram Krishna Bros., Opposite Bishrambag, Poona City.
Ram Narain Lal, Katra, Allahabad.
Ramesh Book Depot & Stationery Mart, Kashmere Gate, Delhi.
Ray & Sons, 43, K. & L. Edwardes Road, Rawalpindi, Murree and Peshawar, Messrs. J.
Roy Chowdhury & Co., 72, Harrison Road, Calcutta, Messrs. N. M.
Sharada Mandir, Ltd., Nai Sarak, Delhi.
Saraswati Book Depot, 25, Lady Hardinge Road, New Delhi.
Sarcar & Sons, 15, College Square, Calcutta, Messrs. M. C.
Sarkar & Co., Ltd., 6, Hastings Street, and 8/2, Hastings Street, Calcutta, Messrs. P. C.
Standard Bookstall, Karachi.
Standard Bookstall, Quetta.
Standard Book Depot, Lahore, Dalhousie and Delhi.
Standard Law Book Society, 69, Harrison Road, Calcutta.
Tara & Sons, Razmak (India), Messrs. B. S.
Taraporevala Sons & Co., Bombay, Messrs. D. B.
Thacker & Co., Ltd., Bombay.
Thacker, Spink & Co., Ltd., Calcutta and Simla.
Tripathi & Co., Booksellers, Princes Street, Kalbadevi Road, Bombay, Messrs. N. M.
University Book Agency, Kacheri Road, Lahore.
Upper India Publishing House, Ltd., Literature Palace, Ammuddaula Park, Lucknow.
Varadachary & Co., Madras, Messrs. P.
Venkatasubban, A., Law Bookseller, Vellore.
Wheeler & Co., Allahabad, Calcutta and Bombay, Messrs. A. H.
Young Man & Co., Egerton Road, Delhi.

*Agent for publications on Aviation only

TABLE OF CONTENTS.

ILLUSTRATIONS.

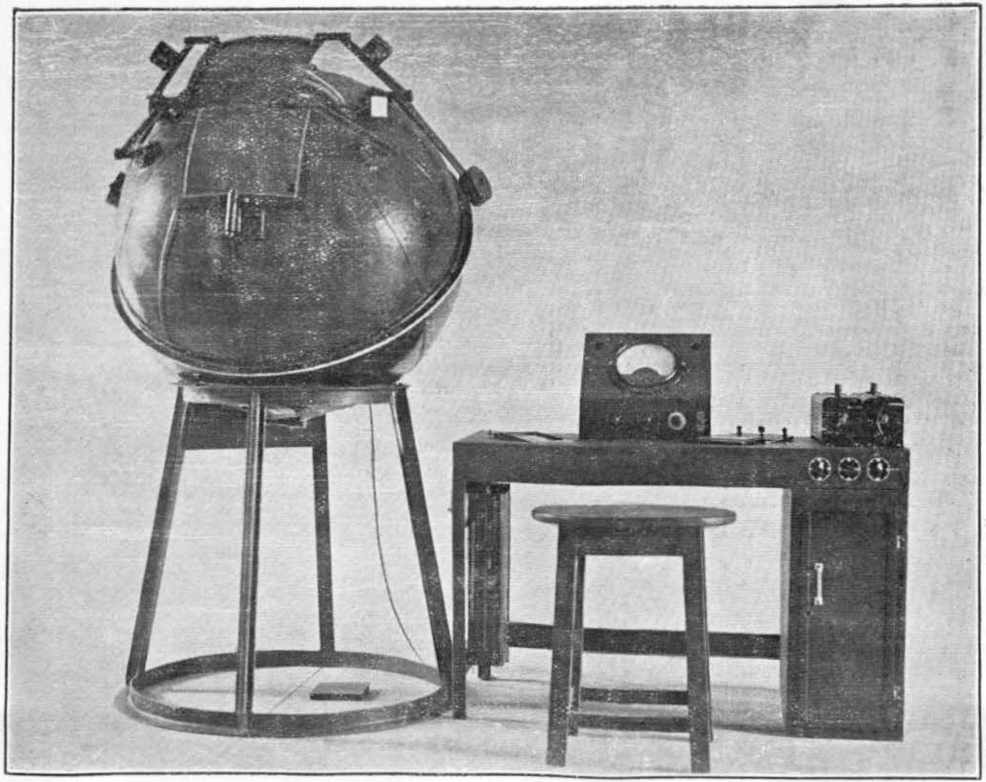


Photo-electric Spherical Photometer at the Government Test House, Alipore.

(*Vide* Paragraph 63.)

ADMINISTRATION REPORT OF THE INDIAN STORES DEPARTMENT FOR THE YEAR 1936-37.

CHAPTER I.

SUMMARY.

General.—The Report of the Indian Stores Department for the year 1935-36 recorded an expansion of the activities of every Branch of the Department. The turnover of the Purchase Branch for the year 1936-37 shows a further, and a still greater, improvement over the record of the year 1935-36, though there was a set-back in the turnover of the Inspection Branch.

2. *Activities of the Purchase Branch of the Department.*—The number of orders placed during the year increased from 75,361 to 80,318 and their value from Rs. 5,59,04,866 to Rs. 6,49,06,534, showing an increase of Rs. 90,01,668 (or 16·1%). The increase in the value of orders is partly attributable to actual increase in demands and partly to a general increase in price levels. Full details of the work of the Purchase Branch will be found in Chapter III and Appendices V to XI and XX.

3. *Activities of the Inspection Branch.*—The value of stores inspected during the year decreased from Rs. 6,76,31,556 to Rs. 5,98,18,856 and the tonnage of stores charged on weight from 3,95,008 to 3,36,375. The value of stores inspected against orders placed by the Indian Stores Department increased from Rs. 4,73,48,900 to Rs. 4,80,84,200 but there was a decline in the value and tonnage of stores against orders which were placed by other Departments direct and inspection of which was entrusted to the Indian Stores Department. This set-back was due to smaller orders having been placed by the Railway Administrations for wagons and rolled steel and cast iron sleepers, also to the labour trouble over the Bengal Nagpur Railway which affected production at the works of the Tata Iron & Steel Co. The number of tests and analyses carried out at the Laboratories of the Government Test House, Alipore, and the Metallurgical Inspectorate, Jamshedpur, amounted to 18,228 as compared with 19,060 during the preceding year. Full details of the work of the Inspection Branch will be found in Chapters IV, V, VI and in Appendices XII to XVIII and XX.

4. *The operation of the Rupee Tender Rules.*—The revised rules for the supply of articles required to be purchased for the public service, which make it obligatory on all purchasing departments to obtain their requirements of stores (with certain exceptions) on the condition that they are delivered and paid for in rupees in India, were in force in all Central Departments and Governor's Provinces, except the Punjab. The Punjab Government still have the revision of their Stores Rules under consideration.

5. *Indents on the Director General, India Store Department, London, and firms abroad.*—Copies of 1,623 indents of the estimated value of Rs. 99,62,717, placed by the various Provincial Governments and Departments of the Central Government on the Director General, India Store Department, London, or direct on firms abroad, were received for scrutiny during the year, as against 1,416 indents of the estimated value of Rs. 77,42,267 during the year 1935-36.

Demands of the estimated value of Rs. 9,493 were challenged during the year as against Rs. 33,293 during the previous year. The following statement shows the result of the examination of indents during the years 1933-34 to 1936-37 :—

Year.	No. of indents examined.	Value of indents examined.	Value of items challenged.	Percentage of value of items challenged to total value of indents.
		Rs.	Rs.	
1933-34	1,180	60,01,840	80,333	1·33
1934-35	1,257	93,32,272	74,640	·79
1935-36	1,416	77,42,267	33,293	·43
1936-37	1,623	99,62,717	9,493	·001

Closer observance of the Rupee Tender Rules by the indenting Departments has resulted in a further reduction in the value of items which could be challenged on scrutiny.

The half-yearly lists of stores obtained from abroad were published in the Indian Trade Journal during October 1936 and March 1937 for the information of the commercial and industrial community.

6. *Utilisation of the services of the Indian Stores Department by authorities outside India.*—The services of the Department continued to be utilised, as in past years, by the Resident Engineer, Royal Airship Base, Karachi, for the purchase and inspection of miscellaneous stores and by the Inspector General of Police, Singapore, Straits Settlements, for uniforms and accoutrements. The total value of orders placed on behalf of these two authorities aggregated Rs. 5,917. The Colonial Store Keeper, Ceylon, purchased fuel oil of the value of Rs. 3,026 and the Secretary to the Union of South Africa in the Department of Public Works, Pretoria, purchased carpets of the value of Rs. 1,530 through the Department. Tents of the value of Rs. 5,320 were inspected on behalf of the Palestine Government, and cast iron pipes and specials aggregating 70 tons on behalf of the Singapore Municipality.

7. *Financial position.*—The financial result of the working of the Department for the year is exhibited in the statement of income and expenditure prepared by the Audit Officer, Indian Stores Department, which appears as Appendix XIX. The statement shows, separately, the expenditure on the commercial and non-commercial activities of the Department.

The cost of the operations of the Department connected with the purchase and inspection of stores, and the fees earned on these operations, are shewn in the commercial section of the account. The net result of the year's working under this section shows a deficit of Rs. 6,60,290 as against Rs. 3,45,148 during the year 1935-36, due to smaller recoveries having been made for inspection of stores for the reasons explained in paragraph 3.

The expenditure on the non-commercial section of the account amounted to Rs. 5,37,672 as against Rs. 5,27,278 during the year 1935-36, showing an increase of Rs. 10,394, due to normal growth of expenditure under the various sub-heads of account. The recoveries creditable to this section amounted to Rs. 2,18,275 against Rs. 2,00,545 during the preceding year, showing an improvement of Rs. 17,730 in the turnover of the Government Test House, Alipore. The net expenditure of the year under this section, which represents the contribution of the Department towards the encouragement of Indian industries amounted to Rs. 3,19,397 against Rs. 3,26,733 during the year 1935-36. In addition to this sum, an expenditure of Rs. 1,63,466 was incurred for the same object from the funds of the Industrial Research Bureau, which is attached to the Indian Stores Department. A separate report dealing with the activities of the Bureau during the year has been issued.

8. *Organisation of the Indian Stores Department and procedure in force.*—A brief description of the organisation of the Department, with hints for the guidance of indenting authorities, will be found in Appendix I to this Report. Full details are given in a pamphlet entitled "Indian Stores Department—Its Organisation and Functions" copies of which can be obtained by indenting authorities, free of charge, on application to the Chief Controller of Stores.

CHAPTER II.

ORGANISATION.

9. *Changes in the organisation.*—Owing to expansion of the activities of the Engineering Purchase Branch in the Headquarters office of the Department it was found necessary to divide it into two sections, with effect from the 1st April 1936, for which purpose an additional post of Assistant Director of Purchase was created with effect from the 1st May 1936. A post of Assistant Controller of Purchase was added to the strength of the Calcutta Purchase Circle. The status of officers in charge of the Karachi and Upper India Inspection Circles, which was reduced to "Inspector-in-Charge" during the retrenchment campaign of 1931, was raised to "Assistant Controller of Inspection", and two posts of Assistant Engineer (Inspection) were added to the cadre of the Inspection Branch to cope with increase in the work of the Department. A temporary post of Officer on Special Duty was created at the Metallurgical Inspectorate, for a short period. A few additions were also made to the subordinate technical, ministerial and inferior staff.

10. *Organisation at the end of the year.*—There were 835 sanctioned posts in the Department at the end of the year under review, classified as below :—

	Indian Stores Department proper.	Industrial Research Bureau.	Total.
Gazetted Officers	67	4	71
Technical subordinates including Drawing Office staff	104	25	129
Ministerial staff	382	22	404
Inferior servants	209	22	231
Total ..	762	73	835

Of the 50 additional appointments sanctioned during the year, 18 related to the Industrial Research Bureau. The additions to the staff of the Stores Department proper comprised :—

Gazetted posts	5
Technical subordinates	7
Ministerial staff	14
Inferior servants	6
	32

A conspectus of the organisation as it stood on the 31st March 1937 will be found in Appendix II.

11. *Important changes in personnel.*—Sir James Pitkeathly, Chief Controller of Stores, who proceeded on leave with effect from the 1st November 1935, to act as a member of the committee appointed by the Government of Bengal to enquire into the charges levied for electrical energy by the Calcutta Electric Supply Corporation, and was subsequently placed on deputation to London, to make a detailed examination of the working of the London Store Department, resumed charge of the Department on the 10th September 1936. He was again placed on special duty with the Department of Education, Health and Lands, from the 2nd November 1936 to the 31st January 1937, to serve as Chairman of the Delhi Electricity Enquiry Committee, constituted to examine the position of Delhi Province, in respect of the supply of electricity. Mr. R. W. Targett officiated as Chief Controller of Stores during the absence of Sir James Pitkeathly on both occasions.

Mr. H. F. Davy, who accompanied Sir James Pitkeathly, on deputation to London, resumed charge of the Calcutta Inspection Circle on the 7th September 1936. Mr. N. Brodie, Director, Industrial Research Bureau, proceeded on leave for two years with effect from the 23rd February 1937. Mr. E. F. G. Gilmore, Superintendent, Government Test House, was appointed to officiate as Director, Industrial Research Bureau, *vice* Mr. Brodie, and Mr. N. N. Sen Gupta, Chemist, as Officiating Superintendent of the Government Test House, in the consequential vacancy. Mr. R. A. MacGregor was recruited through the High Commissioner for India to replace Mr. E. A. Wraight as Metallurgical Inspector. He was appointed with effect from the 25th February 1937, a few weeks in advance of the departure of Mr. Wraight on leave preparatory to retirement from the service, as owing to developments in the Metallurgical Industry in India it was considered desirable that Mr. Wraight should be with his successor for some time before making over charge of the Inspectorate. The post of Officer on Special Duty mentioned in paragraph 9 was created for the purpose. One other European officer was recruited through the High Commissioner for India during the year, for the inspection of wagons, after efforts were made through the Public Service Commission to find a suitable officer in India. The services of the European Officer, who had been temporarily recruited to fill the vacancy, were terminated. Five Indian officers were recruited in India to fill four posts of Assistant Engineer and one post of Assistant Controller of Purchase, and one Indian Officer was recruited through the High Commissioner for the post of Research Officer at the Government Test House. The services of one European Officer were placed at the disposal of the Military Engineer Services and an Indian subordinate was promoted in the resulting vacancy.

12. *Numbers of Europeans and Indians in the Department.*—Appendix III of the Report contains a graph showing the progress of Indianisation and the proportion of Indians to non-Indians in the gazetted ranks from year to year, since the constitution of the Department in 1922. The numbers of European and Indian officers on the 31st March 1937 stood at 21 and 50 respectively as against 21 and 43 on the same date in the previous year. The position on the 1st January 1937 was 20 Europeans and 50 Indians.

13. *Facilities for technical training.*—During the year under review one officer and one subordinate were granted facilities for visiting certain engineering firms in the United Kingdom during their leave.

14. *Recruitment in the subordinate technical staff.*—As in previous years all vacancies were filled by Indians.

15. *Communal composition of the staff.*—The orders of the Government of India regarding the adequate representation of the various communities in the staff of the Department were carefully observed. Appendix IV shows the communal composition of the staff on the 1st January 1937 as compared with the corresponding date of the previous year.

CHAPTER III.

Work of the Purchase Branch.

16. *General.*—A new high record was reached in the year 1936-37 when the total value of purchases made by the Department amounted to Rs. 6,49,06,534. The previous year's figure was Rs. 5,59,04,866, thus there was an increase of Rs. 90,01,668 or 16·1%—a very satisfactory expansion in the turnover of the Department.

A larger number of indents and orders were dealt with, as the following statement shows :—

Year.	No. of indents received.	No. of orders placed.
1936-37	71,317	80,318
1935-36	67,144	75,361
1934-35	55,024	61,803

An analysis is given below of the distribution of the work throughout the various purchase organisations of the Department :—

Organisation.	No. of indents received.			No. of orders placed.		
	1934-35.	1935-36.	1936-37.	1934-35.	1935-36.	1936-37.
Provincial.						
Controller of Purchase, Calcutta.	8,696	11,216	9,059	11,608	14,322	12,738
Controller of Purchase, Bombay.	3,158	4,130	2,967	4,830	5,797	5,488
Controller of Purchase, Karachi.	3,509	4,540	3,563	6,605	7,738	6,848
Total Provincial ..	15,363	19,886	15,589	23,043	27,857	25,074
Total Headquarters	39,661	47,258	55,728	38,760	47,504	55,244
Grand Total ..	55,024	67,144	71,317	61,803	75,361	80,318

Details of the values of orders placed are given in Appendices V to VIII.

17. *Clientèle of the Department.*—During the year 1936-37 there were further additions to the list of indentors utilising the services of the Department for the first time, and it is gratifying to be able to record that the Department's clientèle continues to expand.

18. *Variations in demands.*—The following statement shows the fluctuations in the values of orders placed on behalf of various indenting authorities as compared with the corresponding figures of the preceding year :—

Indenting authorities.	Value of Orders during		Increase + Decrease —	Percentage Increase + Decrease —
	1935-36.	1936-37.		
Central, Defence	1,03,66,765	1,19,51,371	+15,84,606	+15·29
Central—Civil	90,74,628	67,18,330	—23,56,298	—25·97
Railways, State-managed ..	2,78,10,824	3,30,46,908	+52,36,084	+18·82
Railways, Company-managed ..	6,76,206	28,33,452	+21,57,246	+319·0
Railways, Indian State-worked	5,34,414	2,82,160	—2,52,254	—47·20
Total Railways ..	2,90,21,444	3,61,62,520	+71,41,076	+24·6
Provincial Governments ..	63,51,490	70,41,360	+6,89,870	+10·86
Indian States	3,64,292	5,70,855	+2,06,563	+56·7
Quasi-public bodies ..	7,15,722	24,51,625	+17,35,903	+242·53
British and Colonial Governments.	10,525	10,473	—52	—·5
Grand Total ..	5,59,04,866	6,49,06,534	+90,01,668	+16·1

The value of Stores purchased on behalf of Provincial Governments increased from Rs. 63,51,490 to Rs. 70,41,360. It is evident that the services offered by the Department are appreciated by these indenting authorities. The following figures of purchases made on behalf of Provincial Governments over the past three years show a steady expansion of business from this source :—

Year.	Rs.
1934-35	52,17,782
1935-36	63,51,490
1936-37	70,41,360

19. *Purchases on behalf of the Defence Department.*—The value of stores purchased for the Army, Royal Air Force and other authorities of the Defence Organisation amounted to Rs. 1,19,51,371. The previous year's figure was Rs. 1,03,66,765, an increase of Rs. 15,84,606 or 15·29%.

There was an increase in the value of textiles purchased, from Rs. 49,14,426 in the previous year to Rs. 68,60,189, but the expenditure on engineering stores decreased from Rs. 54,52,339 to Rs. 50,91,182.

20. *Purchases on behalf of Civil Departments of the Central Government.*—In 1935-36 the value of purchases on behalf of Central Civil Departments amounted to Rs. 90,74,628 but in the year under review it fell to Rs. 67,18,330, *i.e.*, a decrease of Rs. 23,56,298. Purchases on behalf of the Civil Aviation Department declined in value by Rs. 18,11,379 and those on behalf of the Posts and Telegraphs Department by Rs. 25,45,981, in both cases due to smaller expenditure on Capital works. Larger purchases were, on the other hand, arranged on behalf of the Central Public Works Department (Rs. 7,89,062), Northern India Salt Revnue Department (Rs. 1,06,479), and the Andamans Commission (Rs. 73,091).

21. *Purchases on account of Railway Administrations.*—Stores purchased against demands from State Railways amounted in value to Rs. 3,30,46,908, the corresponding figure for the previous year being Rs. 2,78,10,824. Thus there was an increase of Rs. 52,36,084 or 18·82%. Purchases for Company-managed Railways amounted to Rs. 28,33,452 against Rs. 6,76,206 during 1935-36, but those for Railways managed by Indian States declined from Rs. 5,34,414 to Rs. 2,82,160. The total purchase, for all Railway administrations amounted to Rs. 3,61,62,520 against Rs. 2,90,21,444 in 1935-36, or an increase of 24·6%.

22. *Purchases on behalf of Provincial Governments.*—The purchases made for these authorities reached a total of Rs. 70,41,360 as against Rs. 63,51,490 for 1935-36, an increase of Rs. 6,89,870. Larger purchases were made for the Governments of Bengal, United Provinces, Punjab and Central Provinces, but the work done on behalf of the Governments of Madras, Burma and Assam was less than during the previous year.

23. *Effect of price levels on the turnover of the Department.*—The following list shows fluctuations in the prices of certain classes of stores purchased by the Department:—

Name of article.	Average percentage decrease in prices as compared with 1935-36.
Textiles.	
Drill, khaki	5·26
Engineering and Miscellaneous Stores.	
Charpoys, iron pipe	21·11
Pipes, M. S.	14·0
Pitch	12·5
Tar, crude	11·1
Hose pipe	10·3
Cables, flameproof	10·0
Oil, cylinder, ordinary	10·0
Oil, cylinder, superheat	9·9
Bitumen emulsions	8·4
Bituminous solution	8·0

Name of article.	Average percentage decrease in prices as compared with 1935-36.
Engineering and Miscellaneous Stores—contd.	
Varnish, gold size	7·6
Poles, tubular, steel	6·0
Spring steel	5·5
Oil, mineral, cleaning	4·08
Glasses, looking	4·16
Turpentine	3·4
Varnish, body, hard drying	3·18
Fire clay	2·58
Roofing material	2·5
Tool steel	2·0
Insulators, porcelain	2·0
Electrodes, for welding purposes	2·0
Paint, gulf red, stiff	1·2
Fans, electric	1·0
Glass plates	·72
Paint, black	·6
Oil, mineral, Colza	·41

Name of article.	Average percentage increase in prices as compared with 1935-36.
Textiles.	
Greatcoat cloth (Army quality)	21·05
Flannel, Silver grey	20·0
Greatcoat cloth (Police quality)	16·12
Serge, blue, medium	14·28
Serge, Service Dress	12·5
Postal bags, jute, canvas	11·92
Jerseys (Woollen)	11·11
Socks	8·69
Canvas, flax	8·61
Engineering and Miscellaeous Stores.	
Boiler and flue tubes	88·5
Red lead	37·8
Oil, castor	20·82
Wires, M. S.	20·0
Cables, loco head light	18·0
Pig iron	18·0
Paint, white lead	16.8

Name of Article.	Average percentage increase in prices as compared with 1935-36.
Engineering and Miscellaneous Stores—contd.	
Copper wires, cotton and silk covered	15·0
Oil, linseed, double boiled	13·9
Cables, V. I. R. and insulated	13·0
Asbestos cement sheets	12·25
Oil, linseed, raw	9·9
Steel sections	9·7
Tyres, steel	8·6
Enamel for undercoats	7·6
Cooking ranges	7·48
Enamel white, finishing	7·2
Wheels and Axles	6·2
Cylinders, vacuum brake	4·61
Beaters for plate layers	4·54
Piston rods, vacuum brake, brass covered ..	4·0
Creosote	1·85
Axles, straight	1·7
Oil, Diesel, heavy	1·39
Oil, Diesel, light	1·25
Cells, Primary, Caustic Soda	1·0
Tallow	·33

24. *Purchase of Textiles and Leather goods.*—During the year the total value of purchases of these stores amounted to Rs. 1,15,12,129 against previous year's total of Rs. 99,22,244. Thus there was an increase of Rs. 15,89,885, or 16·0%. The purchases comprised :—

Items.	1935-36.	1936-37.
	Rs.	Rs.
Cotton goods	48,16,387	54,37,842
Woollen goods	37,28,599	45,97,013
Jute, flax, etc.	11,78,583	12,44,468
Leather goods	1,98,675	2,32,806
Total ..	99,22,244	1,15,12,129

The purchases on behalf of the Army increased from Rs. 49,14,426 in 1935-36 to Rs. 68,60,189 and for the Provincial Governments from Rs. 11,58,230 to Rs. 12,54,354. Purchases for the Railway Administrations on the other hand decreased from Rs. 29,10,010 in 1935-36 to Rs. 25,31,340. Of the total purchases of textiles and allied stores and leather goods, amounting to Rs. 1,15,12,129, articles of indigenous manufacture amounted to Rs. 1,06,59,175 and imported stores amounted to Rs. 8,52,954 only. The proportion of indigenous and imported stores thus stood at 92·6% and 7·4% during the year 1936-37 as compared with 92·4% and 7·6% during 1935-36, *vide* Appendix VII. Details of important purchases of articles of indigenous manufacture are given in paragraph 69.

25. *Details of important purchases of Textiles and Leather goods.*—The more important purchases made during the year were :—

	Rs.
Drills	12,53,000
Tents and tent components	9,79,000
Blankets	9,74,000
Flannel	7,01,000
Greatcoats and greatcoat cloth	6,38,000
Jerseys, jackets, cardigan and waistcoats	6,16,000
Cotton waste	6,13,000
Pugree cloth, dyed and bleached	4,38,000
Serges	4,05,000
Socks, stockings, gloves, etc...	3,47,000
Putties, cotton and woollen	3,25,000
Sheets, ground	2,66,000
Wool, cotton, absorbent	2,32,000
Yarn, cotton and woollen	2,24,000
Leather cloth, linoleum, etc.	2,01,000
Blanketing cloth	1,54,000
Rugs, Horse	1,33,000
Ropes, head and heel, manilla, etc.	1,28,000
Duck, cotton	1,27,000
Canvas, cotton, hemp, flax, etc.	1,15,000
Sheets, barrack and hospital	1,14,000
Paulins	1,14,000
Dhoti cloth, long cloth and dosuti cloth, etc.	1,17,000
Carpets	1,08,000
Bags, postal (jute, flax and leather)	1,02,000
Hides, skins and leather accoutrements	1,00,000
Durries	98,000
Cordages, cotton, etc.	97,000
Thread, sewing and twine	93,000
Tape and webbing	86,000
Hessians and gunnies	84,000
Boots and shoes	84,000
Capes and coats, waterproof	83,000
Flannelette	82,000

	Rs.
Cloth, cord	78,000
Twill	77,000
Bandage cloth	77,000
Cloths, jaconet, dungree, etc.	74,000
Garments, uniform	74,000
Drawers, cotton and woollen	72,000
Kanats for aerodrome hangars	58,000
Towels and towelling cloth	54,000

26. *Purchase of Engineering Hardware and Miscellaneous Stores.*—There was a substantial increase in the value of stores purchased under this heading. The total purchases amounted to Rs. 5,33,94,405 against the previous year's figure of Rs. 4,59,82,622 showing an increase of Rs. 74,11,783 or 16·12%. The increase was chiefly contributed to by demands from State and Company Railways, the Cochin Harbour Authorities and the New Delhi Municipal Committee.

The value of important items of engineering and miscellaneous stores wholly or partially manufactured in India, for which contracts were placed during the year amounted to over Rupees two crores, representing 38 per cent. of the total value of purchases during the year. Several articles of Indian manufacture, such as Louvre slats, Clasp knives with marline spike, Rubber tyres for mechanically propelled vehicles, and Cast iron cylinders for bridgework, were purchased by the Department for the first time during the year under review. Details of important purchases of various articles manufactured in India are given in paragraph 69.

The following table shows the extent to which Engineering and Miscellaneous stores were purchased on behalf of the various authorities utilising the services of the Department :—

Indenting Authorities.	1935-36.	1936-37.	Difference.
Central, Defence	54,52,339	50,91,182	—3,61,157
Central, Civil	81,45,308	58,83,257	—22,62,051
State Railways	2,49,80,260	3,06,00,917	+56,20,657
Company Railways	6,14,100	27,88,114	+21,74,014
Railways worked by Indian States ..	5,17,074	2,42,149	—2,74,925
Provincial Governments	51,93,260	57,87,006	+5,93,746
Indian States	3,61,437	5,68,925	+2,07,488
Quasi-public Bodies	7,11,624	24,26,858	+17,15,234
British and Colonial Governments	7,220	5,997	—1,223
Total ..	4,59,82,622	5,33,94,405	+74,11,783

27. *Details of important purchases of Engineering and Miscellaneous Stores.*—The more important purchases made during the year were :—

	Rs.
Axles, tyres, wheels, screw couplings, underframe parts, etc., for Railway wagons and locomotives	96,93,000
Mild steel sections and sheets	33,39,000
Lubricating oils and greases	24,82,000
Paints, enamels and varnishes	22,01,000
Road dressing materials	21,35,000
Cement	21,02,000
Railway Permanent way materials and fittings.. ..	17,37,000
Electric Cells, primary, secondary and spares	16,95,000
Cables, conductors and transmission line materials including poles, steel, tubular	16,64,000
Oil, kerosene	16,27,000
Tools, including track tools, hand tools and workshop tools	15,31,000
Oil, fuel	10,87,000
Fans, electric	10,74,000
Broadcasting equipment	10,35,000
Lamps, electric	10,04,000
Dynamos, train lighting	7,74,000
Motor vehicles	7,17,000
Cast and wrought iron pipes and specials	6,75,000
Steel structures, tanks and stagings	6,60,000
Cranes, lifts and traversers, etc.	6,40,090
Engineering plant, machinery and spare parts	6,21,000
Tubes, boiler, flue, etc.	5,62,000
Vacuum brake fittings	5,46,000
Alternator sets	5,39,000
Locomotives and spare parts	5,17,000
Charpoys, galvanised iron	4,70,000
Fittings, carriage and wagon	4,57,000
Sheets, galvanised iron	4,31,000
Electrical fittings and Miscellaneous electrical stores ..	3,66,000
Rubber tyres and tubes	3,71,000
Bolts and nuts	3,59,000
Pig iron	3,45,000
Pipes and fittings	3,35,000
Coal and coke	3,06,000
Steam boiler and auxiliaries	2,92,000
Road rollers and road making equipment	2,92 000

	Rs
Petrol	2,79,000
Gas, Oxygen	2,44,000
Oil, linseed	2,35,000
Pumping plant and spares	2,35,000
Pig lead	2,32,000
Steel wire	2,27,000
Motors, electric and spares	2,24,000
Acids, chemicals, etc.	2,18,000
Sewage disposal plant and sanitary fittings	2,05,000
Bricks, fire, and fireclay	1,96,000
Fittings, waterworks	1,94,000
Sea and river craft	1,85,000
Electrodes for welding purposes	1,74,000
Pipes, victualic, and fittings	1,73,000
Tractors	1,67,000
Sheet, piling, steel	1,66,000
Turpentine and rosin	1,52,000
Meters, electricity	1,39,000
Zinc tiles and ingots	1,39,000
Oil, Castor	1,39,000
Belting	1,35,000
Hose I. R. and canvas	1,32,000
Meters, water	1,28,000
Wire ropes	1,19,000
Weighbridges and weighing machines	1,17,000
Brushes, of sorts	1,12,000
Timber	1,11,000
Pipes, Asbestos cement	1,04,000
Fire extinguishers	1,00,000
Sheets, Asbestos cement and accessories	98,000
Signalling and interlocking materials	98,000
Creosote	94,000
Air Compressors	92,000
Roofing materials	88,000
Pipes and fittings, stoneware	81,000
Antimony	79,000
Agricultural machinery	77,000
Telephone and signalling apparatus and spare parts	76,000
Detritus screening plant	72,000
Files, steel	71,000

	Rs.
Beacons, floodlight, and lighthouse equipment ..	71,000
Cooking ranges	70,000
Calcium Carbide	69,000
Fencing materials	65,000
Glass, plate, sheet, etc.	63,000
Porcelain insulators	60,000
Soaps	59,000
Safes and chests	59,000
Chemical apparatus	57,000
Plumbago crucibles	55,000
Bearings, ball and roller	54,000
Locks	53,000
Electric transformers	51,000
Tool steel	51,000
Leather dust shields	50,000
Wood screws	50,000

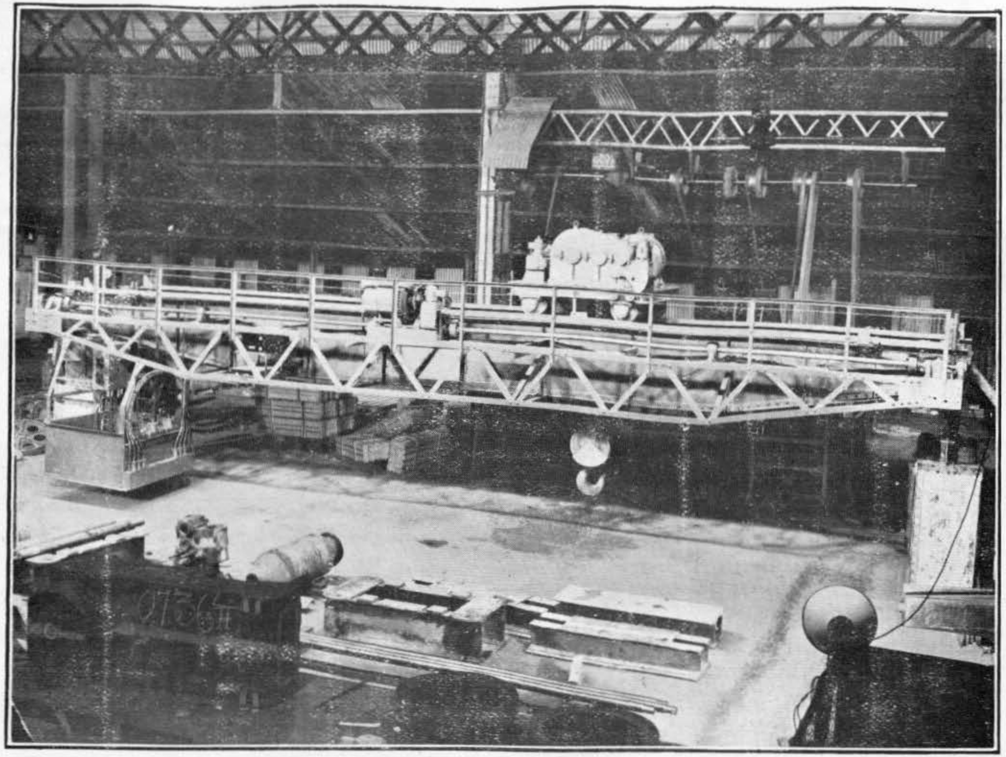
Among the important Contracts handled by the Department during the year, special mention may be made of—

	Rs.
1. Broadcasting Equipment for the All-India Radio	10,34,810
2. Electric Passenger Locomotive for the Great Indian Peninsula Railway	3,15,560
3. Steam Raising Plant and Turbo Alternator Set for the New Delhi Municipal Committee	2,91,952
4. Oil Engine Alternator Set for Jaipur State	1,51,881
5. Oil Engine Alternator Set for the City Board, Mussoorie	1,46,247
6. Sewage Pumping Plant for Delhi	1,37,743
7. Cranes and Traversers for the North Western Railway, Moghalpura Workshops	1,47,896

A photograph of one of the Overhead Electric Cranes purchased for the North Western Railway, which were manufactured in India under the inspection of the Department, faces this page.

28. *Distribution of purchases.*—The statistics exhibited in Appendix VIII give the details of the distribution of the contracts placed by the Department among the various Provinces and Indian States. It will be observed that the business transacted by the Department continues to be widely distributed throughout the country.

29. *Rate and Running contracts.*—Particulars of the rate and running contracts concluded during the year are shown in Appendix IX. These contracts extend the benefits of rates obtained for bulk supplies to small demands and were increasingly utilised by all classes of indentors.



An Overhead Electric Crane for the North Western Railway.

(*Vide* Paragraph 27.)

30. *Work done by Provincial Circles.*—The total value of purchases made during the year by the Provincial Purchase Circles of the Department at Calcutta, Bombay and Karachi, amounted to Rs. 72,25,801. These figures do not include the value of requisitions placed by the Provincial Controllers of Purchase against Rate and Running contracts arranged by the Headquarters Office, which have from this year been included in the statistics of the Purchase sections which arranged the contracts. Three thousand five hundred and eightythree such requisitions amounting to Rs. 6,11,626 were dealt with in the three Circles during the year. Including these figures in the turnover of this year for the purpose of comparison, 19,172 indents were received and 28,657 contracts of the total value of Rs. 78,37,426 were placed by the three Provincial Circles during the year 1936-37 as compared with 19,886 indents and 27,857 contracts of the total value of Rs. 84,21,257 during the year 1935-36. The decline in the orders placed by the Provincial Circles is mainly due to smaller purchases by the Calcutta Circle for the Controller of Telegraph Stores and for State Railways, due to several demands from these authorities having been consolidated and dealt with in the Headquarters Office. There was also a fall in the turnover of the Karachi Circle, due to the fact that the figures for the year 1935-36 included certain large demands in connection with the Reconstruction work at Quetta.

31. *The Calcutta Purchase Circle.*—The total value of stores purchased by this Circle amounted to Rs. 43,77,714 (or Rs. 45,73,980 including the value of requisitions placed against the Headquarters contracts) as compared with Rs. 51,14,974 during the previous year. Nine thousand and fiftynine indents (or 10,188 including requisitions against Headquarters contracts) were received and 12,738 orders (or 13,867 including orders against Headquarters contracts) were placed by the Circle during the year, as against 11,216 indents and 14,322 orders during the year 1935-36. The reasons for a decline in the turnover of the Circle are given in the preceding paragraph.

During the year the capacity of 96 new firms who applied for registration was investigated, and of these 56 were registered as approved contractors.

32. *The Bombay Purchase Circle.*—The total value of stores purchased by this Circle amounted to Rs. 16,37,210 (or Rs. 18,03,718 including requisitions against Headquarters contracts) as compared with Rs. 16,59,005 during the previous year. Two thousand nine hundred and sixtyseven indents (or 4,053 including requisitions against Headquarters contracts) were received and 5,488 orders (or 6,574 including orders against Headquarters contracts) were placed by the Circle during the year as against 4,130 indents and 5,797 orders during the year 1935-36.

Applications for registration were received from 45 new firms of which 30 were reported on favourably.

33. *The Karachi Purchase Circle.*—This Circle purchased stores to the value of Rs. 12,10,877 (or Rs. 14,59,728 including requisitions against Headquarters contracts) during the year as against Rs. 16,47,278 during 1935-36. As explained in paragraph 30, the latter figures were inflated by certain special

purchases in connection with the Quetta Reconstruction works, the turnover of the Circle during the year 1934-35 being Rs. 11,05,594 only. Three thousand five hundred and sixtythree indents (or 4,931 including requisitions against Headquarters contracts) were received and 6,848 orders (or 8,216 including orders against Headquarters contracts) were placed by the Circle during the year as against 4,540 indents and 7,738 orders during the year 1935-36.

During the year 7 new firms applied for registration, of which 5 were reported on favourably.

34. *Comparison with the London Stores Department.*—A comparison of the numbers and values of contracts for stores and freight placed by the India Store Department, London, with the numbers and values of the contracts made by the Indian Stores Department during the years 1933-34 to 1935-36 is shown in Appendix X. Appendix XI compares the values of contracts placed by the two organisations, for various authorities and classes of stores, during the same period. The figures relating to the London Stores Department have been converted into Indian currency at the rate of 1*s*. 6*d*. to the rupee. The figures of the London Stores Department for 1936-37 are not yet available.

CHAPTER IV.

Work of the Inspection Branch.

Administrative Inspection Branch at Headquarters.

35. *General.*—A further expansion was recorded in the work devolving on the Inspection Branch at Headquarters, during the year, which exceeded any previous year's record. This was mainly due to increase in the activities of the Purchase Branch of the Department a reference to which has been made in the preceding Chapter and to work connected with Standardization.

The important functions of the Branch are the preparation of Schedules of Requirements, preparation and revision of Specifications, technical scrutiny of engineering indents and schemes, and technical direction of activities of the Provincial Inspectorates. The staff of the Inspection Branch was fully employed during the year.

36. *Schedules of Requirements.*—The increase in the work of the Purchase Branch during the year under review is reflected in the number of Schedules of Requirements prepared by the Inspection Branch at Headquarters which amounted to 273 compared with 203 in the previous year. It may be noted that both the year 1936-37 and the previous year 1935-36 showed record figures for the numbers of Schedules of Requirements prepared. The wide field covered, particularly in plant and machinery, is illustrated in the list below of some of the more important Schedules of Requirements prepared and issued during the year :—

1. Occulting Clockwork Apparatus for Oyster Island Lighthouse, Rangoon District.
2. Sectional woollen warping mill with beaming arrangement for Central Jail, Trichinopoly.
3. Electro-Plating Plant for the Director of Industries, Madras.
4. Steel Wire Ropes for P. W. D., Central Workshops, Amritsar.
5. C. I. Cylinders and Screw Discs for bridge foundations for the Harbour Engineer-in-Chief to the Government of Madras.
6. Steel Fumigation Barge for Indian Central Cotton Committee, Bombay.
7. Steelwork for combined rail and road bridge for Cochin Harbour.
8. Stone crushers and granulators with screws for the P. W. D., Bengal.
9. Cold Storage Plant for the Imperial Veterinary Serum Institute, Izatnagar.
10. Additional Turbo-Alternator Set Condensing Plant and Auxiliaries for the New Delhi Municipal Committee, New Delhi.
11. A 750 K.W., 3,300 volts oil engine alternator set for Jaipur Power Station.

12. Rotary Convertors, Transformers and Switchgear for M. E. S., Peshawar.
13. Electrically operated Sewage Pumping Installation for Delhi.
14. Screening and Detritus Handling Plant for Delhi Sewage Extension, P. W. D., Health Services, New Delhi.
15. Suction Gas Plant for generation of electricity for the Imperial Institute of Veterinary Research, Muktesar.
16. Mobile X-Ray Apparatus for N. W. Railway.
17. Aeroplane Hangar for Royal Air Force (India).
18. Machine Tools for the Telegraph Workshops, Alipore.
19. Two 500-K.W.H.T. Rectifier Units complete with Transformers and Switchgear for the New Delhi Municipal Committee.
20. Six stage car switch controlled passenger lifts for offices of the Central Government under construction at Bombay.
21. Marine Return Tube Boiler for the Engineer and Harbour Master, Port Blair.
22. A 60-Ton Railway Weighbridge for the G. I. P. Railway.
23. Steelwork for Central Abattoir for the M. E. S.
24. Lancashire Boilers for the Giridih Collieries.
25. Silt Dredging Plant for the Central P. W. D., New Delhi.
26. Apparatus for Actinotherapy (Ultra Violet Radiation), etc., for X-Ray Department, Irwin Hospital, New Delhi.
27. Self supporting steel towers for the aerial system of broadcasting stations.

37. *Specifications.*—The work connected with the preparation and revision of specifications considerably increased during the year. Twentynine specifications were framed and 154 were revised as compared with 15 and 34 respectively in the preceding year. This marked increase is in some measure due to the policy adopted at the 8th Meeting of the Standing Committee on Standards and Specifications for Indian Railways, under which, as a broad general procedure, Indian Railway Standard Specifications are prepared for materials and stores limited to Railways and Indian Stores Department Specifications for materials and stores common to Railways and other departments.

Other work connected with specifications during the year included the scrutiny of five specifications for the Central Standards Office for Railways, Railway Board, and of the same number for the British Standards Institution. The total number of specifications dealt with during the year thus aggregated 193.

A list of the Indian Stores Department Specifications which were current at the end of the year 1936-37 is given in Appendix XII.

The arrangements referred to in the previous year's reports for the printing of Indian Stores Department standard specifications and placing them on sale at various centres were continued. The specifications which were issued as saleable publications by the end of the year under report have been

shown in Appendix XII. Copies of such specifications and of lists of these specifications are procurable both in India and abroad. The lists are obtainable *gratis* and the specifications can be had on *payment* of annas 8 or 10*d.* per copy from the following offices :—

1. Office of the Manager of Publications, Civil Lines, Delhi.
2. Office of the Chief Controller of Stores, Indian Stores Department, New Delhi/Simla.
3. Inspectorates of the Indian Stores Department at Calcutta, Bombay, Karachi, Lahore, Cawnpore and Madras.
4. Office of the High Commissioner for India, Publications Branch, India House, Aldwych, London, W. C. 2.

The work connected with the custody of master copies of the Army textile specifications and their corrections in accordance with the correction slips received from time to time has also increased. The total number of such specifications in the custody of the Department at the end of the year was 357 as against 340 in the previous year.

38. *Standardization.*—During the year under review the work connected with the standardization of stores used by various Government departments was continued.

The closest liaison between the Central Standards Office of the Railway Board and the Inspection Branch of the Department was fully maintained and there was complete co-operation between the two organisations in all matters relating to standardization of railway supplies purchased through the agency of the Indian Stores Department. Technical officers of the Department attended meetings of the Electrical Standards Committee, and of the Standing Committee on Standards and Specifications for Indian Railways, held during the year.

The Inspection Branch at Headquarters also maintained close touch with other departments and Institutions issuing specifications with the object of unifying standards as far as feasible.

Some of the articles in respect of which standardization work was carried out in consultation with the Central Standards Office for Railways and other indenting departments are :—

Abrasive cloth and paper; hurricane lanterns; zinc; buttons, solid white metal; glass plate and sheet; hoses; packings and jointings; tin plates; pig iron; bellows; bees wax; coach screws; electrical cables; insulators; rotary convertors; stay sets for electric poles; water meters; crude oil engine driven road rollers; stationary batteries; rain water drain pipes and fittings; platform weighing machines; handcuffs; bed sheets, bleached; trimming worsted; newar, grey; mosquito netting, cotton; ammunition boots; cotton nainsook, bleached; imitation leather cloth; carpets; blanket cloth; linoleum.

39. ***Preparation or scrutiny of technical schemes and advisory work.*—During** **the year 37 enquiries were received asking for technical advice or other**

particulars, which were furnished. A number of schemes were subjected to technical scrutiny. Special mention may be made of the following cases:—

(1) Installation of a gas engine driven plant operating on charcoal or wood fuel for the generation of electricity, for the Imperial Veterinary Research Institute, Muktesar.

(2) Pumping plant with a discharge totalling 60 cusecs for a high level irrigation canal scheme.

40. *Sample Room.*—This section of the Inspection Branch at Headquarters is entrusted with the work of receipt, classification, storage and issue of samples received against invitations to tenders and those obtained for development and standardisation purposes. It dealt with 10,189 samples during the year as against 10,518 in the previous year.

41. *Drawing Office.*—Further progress was made during the year under review in the preparation and issue of standard drawings. Preliminary drawings were prepared and circulated to parties concerned and standard drawings resulting from them were produced and notified as addenda to the list of Indian Stores Department standard drawings.

During the year 143 drawings, 182 tracings and approximately 53,000 square feet of prints were issued as compared with 137 drawings, 174 tracings and 56,000 square feet of prints during the previous year.

The work in connection with the custody of record copies of Indian Railway Standard Drawings and keeping these corrected to date in accordance with notifications issued by the Central Standards Office for Railways, referred to in previous reports, was continued, the number of new drawings and amendments made to existing drawings being 823 and 466 respectively, as compared with 873 drawings and 610 amendments during the previous year.

42. *Erection at site orders.*—Fiftyone orders of this class were placed during the year aggregating in value Rs. 27,07,639 as against thirty orders valued at Rs. 23,20,206 during the previous year. The most important of these are mentioned below:—

		Rs.
1.	Broadcasting equipment for the Controller of Broadcasting, New Delhi	10,03,484
2.	Steam raising plant for the New Delhi Municipal Committee, New Delhi	2,91,102
3.	Turbo alternator set condensing plant and auxiliaries for the New Delhi Municipal Committee, New Delhi	2,30,456
4.	A 600 K.-W. Heavy oil engine alternator set for the Electrical Engineer, City Board, Mussoorie	1,46,247
5.	Oil engine alternator set for the Superintending Engineer, Public Works Department, Jaipur State, Jaipur	1,45,400
6.	Electrically operated sewage pumping plant for the Superintending Engineer, Health Services, New Delhi	1,37,574
7.	Rotary convertors, transformers, etc., for the Chief Engineer, Northern Command, Murree	94,570
8.	Screening and Detritus handling plant for the Delhi Sewage extension for the Superintending Engineer, Health Services, New Delhi ..	72,290
9.	Moulding, forging and hydraulic riveting machines for the East Indian Railway	65,089
10.	Four sets of Electric Motor gear drive and one set of Double Reduction gear for His Majesty's Mint, Calcutta	58,598

43. *Arrangements for inspection of materials in the country of origin.*—The number and value of orders entrusted to the Director General, India Store Department, London, for the inspection of materials in countries abroad further increased during the year under review. This was mainly due to the increase in the orders for rolling stock components requiring inspection before shipment.

Only one request for pre-inspection of Railway materials in the country of origin was sent to the Director General, India Store Department, London, during the year, through the Calcutta Inspection Circle.

Provincial Inspection Circles.

44. *Work done by the Provincial Inspection Circles.*—The total value of stores inspected and passed by the Provincial Inspectorates during the year and charged on value aggregated Rs. 5,84,79,755 and the tonnage of material charged on weight amounted to 62,731 tons as against Rs. 6,53,54,815 and 67,541 tons during the preceding year.

The value of stores inspected against orders placed by the Department increased from Rs. 4,55,33,504 to Rs. 4,67,67,891, while the value of orders placed by other authorities, the inspection of which was entrusted to the Department, declined by Rs. 81,09,447, that is from Rs. 1,98,21,311 to Rs. 1,17,11,864. The decrease occurred mainly in the value of orders inspected on behalf of Railway administrations and Provincial Governments.

Although the aggregate value of the stores inspected was less than in the preceding year, the total number and value of orders received for inspection reached the record figures of 66,738 orders valued at Rs. 8,80,14,730 as compared with 64,386 orders amounting to Rs. 7,27,61,907 in the previous year.

Full details of the work done are given in the sub-joined paragraphs and in Appendices XIII to XVI.

45. *The Calcutta Inspection Circle.*—The steady increase in the volume and value of work dealt with in the Calcutta Circle during the previous years was maintained. The total number of orders received for inspection increased from 28,660 to 29,860 during the year and the total value of these orders increased still more from Rs. 4,34,18,904 to Rs. 6,14,46,243, representing an increase of 41·5 per cent.

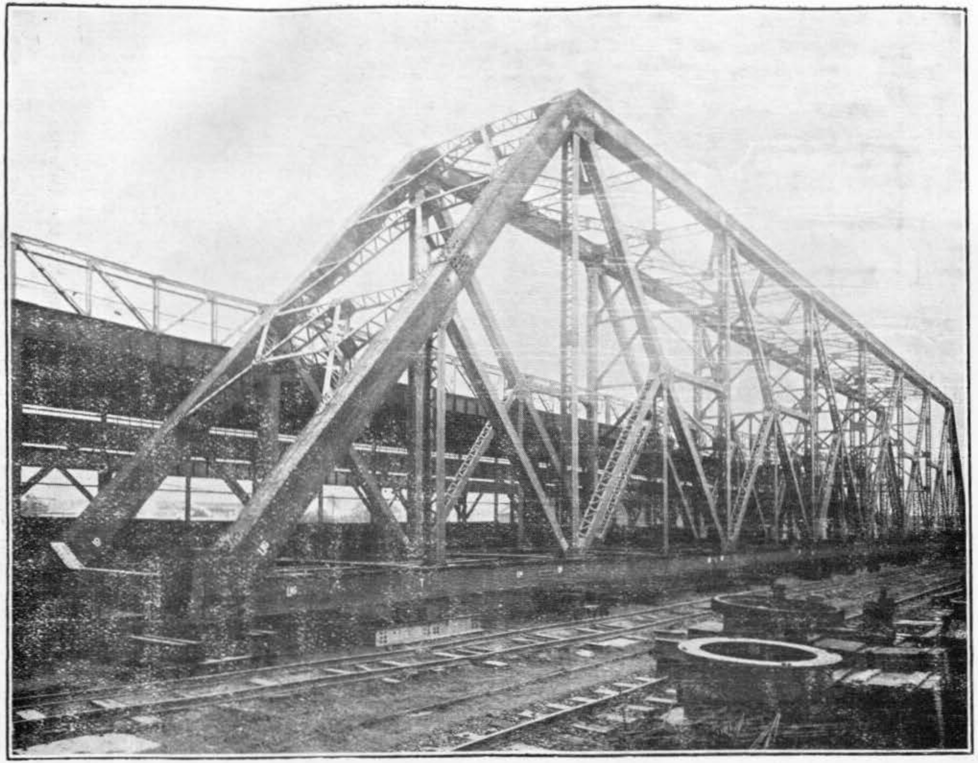
The value of stores inspected against orders placed by authorities other than the Indian Stores Department and charged on value decreased from Rs. 1,74,10,652 during the previous year to Rs. 1,08,04,800. This was mainly due to the decrease in the value of orders for wagons. One thousand eight hundred and ninetythree wagons valued at Rs. 70,69,574 were inspected during the year against 4,433 wagons of the value of Rs. 1,46,38,376 in the preceding year. The quantity of stores inspected against orders charged on a tonnage basis also decreased from 67,277 tons to 61,931 tons. This was principally due to the smaller quantities of rolled steel and cast iron sleepers inspected during the year, 11,79,828 cast iron plates, pots and steel sleepers having been inspected against 14,27,634 in the previous year.

One of the most important orders dealt with in this Circle during the year under review was the steel work of the Meghna Bridge for the Assam Bengal Railway. This comprised six deck spans of 105′-6″ between centres and seven through spans of 331′-0″ centres of a total value of Rs. 8,62,864. A photograph of one of the spans faces this page.

The following are some of the other important orders received for inspection in the Circle during the year :—

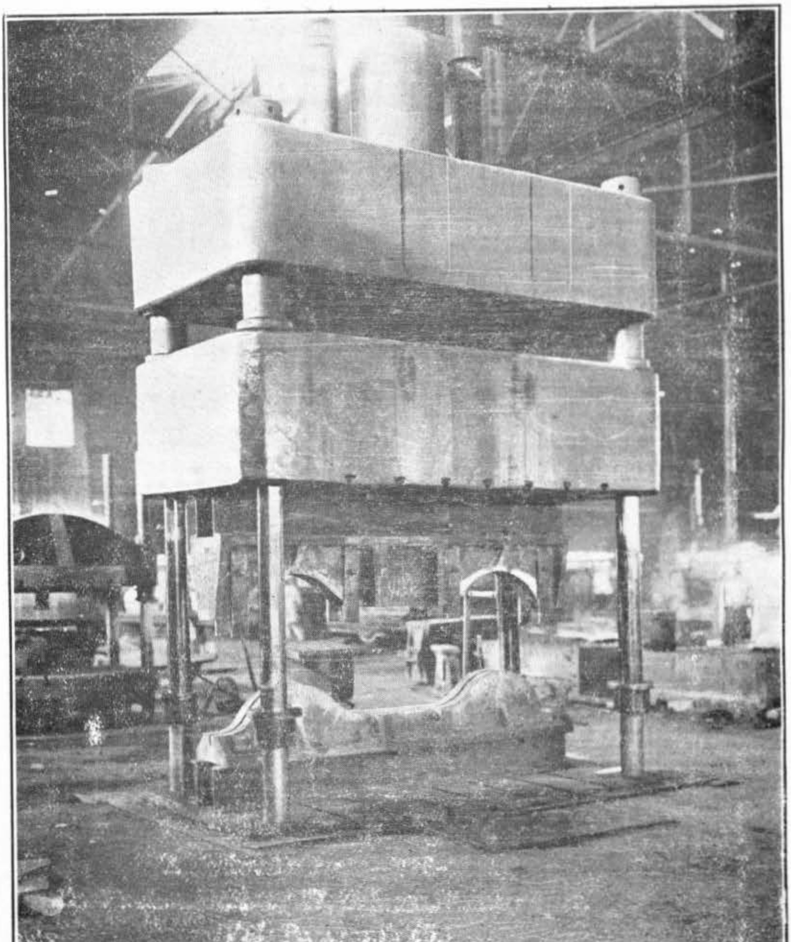
	Rs.
1. 6,833 wagons and underframes for Railways	2,83,87,600
2. 19,65,142 cast iron plates and pots for Railways	53,06,603
3. 530 tons of Andaman padauk and teak squares for Jodhpur Railway	7,41,324
4. Cast iron pipes and specials	6,63,713
5. Train lighting materials, cells and spares	6,52,398
6. Four sets of short wave broadcasting transmitters for Delhi, Bombay, Madras and Calcutta	5,43,032
7. Fourteen spans varying From 44′-0″ to 181′-8″ with cast iron bearings and bedplates for the "Gorai Bridge", Eastern Bengal Railway.	4,63,422
8. 1,046 sets of points and crossings	4,35,751
9. 2,71,733 mild steel tie bars for different Railways	3,94,021
10. Train lighting dynamos	3,41,153
11. 7,365 tons of pig iron	3,16,414
12. 35,41,060 numbers and 239 tons of dogspikes for different Railways	2,45,738
13. Twentytwo spans of 60 ft. and 10 spans of 50 ft. bridge girders for East Indian Railway	2,27,383
14. 13,38,970 mild steel keys	2,13,810
15. Twelve spans of 120′ for the "Ponnai Road Bridge", District Board, Vellore, Madras	2,03,040
16. 12,612 axle-boxes	1,97,240
17. 19,87,456 mild steel cotters for permanent-way	1,47,653
18. Re-roofiing of brass foundry-rebuilding pattern and new heat treatment shop at Kanchrapara, Eastern Bangal Railway ..	1,10,349
19. 75,340 steel sleepers	91,230
20. Steel pipe entablatures for movement of Pontoon spans of up and down wagon ferry pontoon at Shalimar, Bengal Nagpur Railway ..	74,270
21. Two 40-ton electrically operated overhead travelling cranes for Saidpur	72,960
22. Electric motor gear drive complete with accessories for the Calcutta Mint.	58,599
23. One 60-ton overhead and one 8-ton electric travelling cranes for the Locomotive Shops, Jamalpur	55,923
24. Stoneware pipes for drainage, Trivandrum	50,733
25. A 150-ton hydraulic press, East Indian Railway Workshops, Jamshedpur	11,146

A photograph of the hydraulic Press faces the next page.



One of the several main spans of the Meghna Bridge—Assam Bengal Railway.

(*Vide* Paragraph 45.)



A Hydraulic Press—150-Ton.
East Indian Railway Workshops, Jamshedpur.
(*Vide* Paragraph 45.)

Eleven 'erection at site' orders were inspected during the year.

The works and premises of 41 firms were inspected and reported on during the year, of which 21 were recommended for registration as 'Approved Contractors'.

46. *The Bombay Inspection Circle.*—The bulk of the work of this Inspectorate relates to inspection of orders placed by the Department itself and there was an increase in the number and value of such orders received for inspection as compared with the previous year, 15,656 orders valued at Rs. 1,10,29,324 having been received as against 14,724 orders amounting to Rs. 1,04,54,897 during 1935-36. The number of demands received for inspection from other authorities, however, decreased from 189 to 106 and their value from Rs. 25,40,788 to Rs. 3,72,085. The tonnage of material inspected on weight basis also decreased from 264 tons to 96 tons.

The following orders of importance were dealt with during the year :—

	Rs.
1. Wagons against orders placed by the Railway Board (Inspected for assembly only)	2,57,602
2. Steel work for regirdering Krishna Bridge for the Great Indian Peninsula Railway	1,46,348
3. Semi-through spans for Nalganda Bridge for the Great Indian Peninsula Railway	1,36,952
4. Steam road rollers for the Public Works Department, Central Provinces and Quetta Reconstruction	1,36,829
5. Steel work for carriage lift shop for the Mysore Railway	82,563
6. Points and crossings for the North Western Railway	60,250
7. Runway girders for the North Western Railway	39,946

Five 'erection at site' orders were inspected during the year, details of which are as under :—

1. Train lighting dynamos for the Great Indian Peninsula Railway ..	79,737
2. Trans-India air route lighting, Juhu (Bombay) for the Civil Aviation Directorate	38,981
3. Twentyfour portable platform weighing machines for the Great Indian Peninsula Railway	9,824
4. One Avery single pendulum dial indicating railway weigh-bridge for the Great Indian Peninsula Railway	9,795
5. Sectional steel tank for Baroda Cantonment	8,095

The works of 35 firms were inspected out of which 19 were recommended for registration as 'Approved Contractors'.

47. *The Karachi Inspection Circle.*—During the year 8,278 orders valued at Rs. 64,96,546 were received for inspection as against 7,908 orders of the value of Rs. 66,61,438 in the previous year. The number of orders actually inspected during the year rose from 7,606 to 8,196 and their value from Rs. 55,84,613 to Rs. 63,61,616. The value of stores inspected against orders placed by other Departments amounted to Rs. 1,15,753 as against Rs. 83,862 in the preceding year.

As in the past, hardware, miscellaneous, engineering and electrical stores formed the bulk of materials inspected by this Circle. Petrol, kerosene oil, fuel oil, lubricants, road dressing materials, calcium carbide, etc., to the value of Rs. 14,87,030 were inspected and passed against Indian Stores Department orders. Materials wholly or partly fabricated in Karachi to the value of Rs. 4,73,458 were inspected, some of the more important being:—

	Rs.
1. Steel work for spans, lattice steel tower, and passenger platform sheds for the North Western Railway	65,103
2. Steel work for Karachi hangar for Civil Aviation Directorate ..	49,766
3. Steel barges for Port Commissioner, Jamnagar	34,000
4. Tanks, petrol, welded steel, for Chief Engineer, Northern Command ..	28,954
5. Steel tanks for Military Engineer Services, Lahore, Waziristan and Quetta and North Western Railway	22,796
6. Platform shelters and girders for Jodhpur Railway	12,516

During the year, 22 'erection at site' orders for plant and machinery were inspected as against 12 in the previous year, the more important of which are detailed below:—

1. Caterpillar tractors and road rollers, etc., for Commander, Royal Engineers, Reconstruction at Quetta	1,66,475
2. Night landing equipment for Civil Aviation Directorate at Drigh Road, and Dharo Naro	97,742
3. Trans-India Air Route lighting equipment for Civil Aviation Directorate at Hyderabad and Uterlai	44,030
4. Train lighting equipment for North Western Railway at Sukkur ..	26,400
5. Well boring and drilling machine for Quetta	13,966
6. Two-wheel crane for Commander, Royal Engineers, Reconstruction at Quetta	8,839

48. *The Upper India Inspection Circle.*—The Upper India Circle, with its Headquarters at Lahore and its activities extending over the whole of the Punjab, the North-West Frontier Province, Delhi, and part of the United Provinces and Rajputana, deals mainly with the inspection of engineering plant and machinery at site. In addition, it handles the inspection of textiles and general engineering and hardware stores in the works of manufacturers located in the Punjab. The total number of orders received for inspection during the year was 5,703 as against 5,680 in the previous year. The total value of such orders was Rs. 54,13,174 as against Rs. 58,98,770 in 1935-36.

Some of the more important orders dealt with were :—

	Rs.
1. Train lighting equipment for North Western Railway, Moghalpura ..	2,98,240
2. Generating sets for Military Engineer Services, Wana	67,132
3. Generating sets for Rajputana Salt Sources, Sambhar Lake ..	62,045
4. Generating sets for Military Engineer Services, Fort Sandeman ..	58,073
5. Conversion plant (rotary convertors, transformers and switchgear, etc.) for Military Engineer Services, Peshawar	57,814
6. Reconditioning and reconstruction of Pelton Wheels driving the generators at Hydro-Electric Station, Galogi (Mussoorie City Board) ..	56,298
7. Road rollers for Military Engineer Services, Pathankote, Ferozepore, Rawalpindi and Kohat	49,716
8. Road rollers for Provincial Division, Central Public Works Department, New Delhi	31,290
9. Tanks for Military Engineer Services, Jullundur	29,910
10. Pumping plants for Military Engineer Services, Rawalpindi and Peshawar	26,228
11. Electrically operated furnaces for North Western Railway, Moghalpura	23,676
12. Galvanised steel piping for Military Engineer Services, Lahore Cantt.	23,029
13. Road grader for Superintending Engineer, Southern Circle, North-West Frontier Province, Bannu	20,569
14. Steel tubular poles for the Punjab Public Works Department, Electricity Branch	19,356
15. Automatic revolving, reflector type airway beacon for Civil Aviation Directorate at Merta Road	18,937
16. Electrically driven axle journal re-turning and burnishing lathe for North Western Railway, Moghalpura	18,727
17. Pumping plants for North Western Railway, Moga, Raiwind and Okara	18,174
18. Steam locomotive for Forest Officer, Tramways Division, Chhanga Manga	15,700
19. Portable air compressor for Salt Range Division, Northern India Salt Revenue, Khewra	13,223
20. Road rollers for Lyallpur and Ambala Provincial Divisions ..	12,695
21. Crude oil engine for Military Engineer Services, Razmak ..	12,530

The value of textile goods inspected amounted to Rs. 4,90,029. The chief items were woollen putties, blankets, socks, jerseys, flannel silver grey, cloth blue serge and drab mixture, wool cotton absorbent, tents, durries, carpets, reels cotton thread, cotton waste, table cloth, lungies, kullahs, fringes and leather goods.

Ninetyone 'erection at site' orders for plant and machinery were dealt with as against eightyeight in the previous year.

As in the past, the services of this Circle were utilised to a considerable extent by other Provincial Inspectorates for inspection and investigation of minor complaints received from consignees in this area. Fiftythree such investigations were undertaken.

The works of 23 firms were inspected out of which 12 were recommended for registration as ' Approved Contractors '.

49. *The Cawnpore Inspection Branch.*—During the year this Inspectorate received 2,967 orders for inspection as compared with 3,136 in the preceding year. The total value of such orders was Rs. 17,36,625 as against Rs. 22,78,349 in 1935-36. Some of the important items of inspection work handled during the year are given below :—

Boots, ammunition.
Cardigan jackets.
Cordage, cotton.
Cotton banians.
Cotton waste.
Cotton yarn.
Covers, hangars, aeroplane.
Durries, flooring.
Dosuti bags, Postal.
Drill, cotton, blue.
Flags, hand signal.
Flannel, silver grey.
Leather goods.
Long cloth, bleached.
Putties.
Socks, worsted.
Tents and tentage.
Twine, cotton, grey.
Wool, worsted, trimming.
Oil, castor.
Oil, linseed.
Spirit, methylated.
Turpentine.

The value of non-departmental orders received for inspection amounted to Rs. 50,808 as against Rs. 24,394, 3,814 and 8,791 in the years 1935-36, 1934-35 and 1933-34 respectively. Five such orders valued at Rs. 22,120 were inspected on behalf of Indian States and Palestine Government. In addition, 691 tons of tie bars charged on tonnage basis were inspected for the East Indian Railway.

Although this organisation is principally concerned with the inspection of textile and leather goods, oils and soaps manufatured at Cawnpore and hardware and miscellaneous engineering stores such as locks and handcuffs, letter boxes, etc., fabricated in Aligarh, its activities are now extending gradually towards the inspection and test of plant and machinery after erection at site. Inspections of aerodrome lighting equipments for Cawnpore and Allahabad, of an automatic beacon for the Aerodrome at Etah and of a steam road roller and air lift pumping plant for the Military Engineer Services, Dehra Dun and Lucknow, respectively, were carried out during the year.

The works of 13 firms were inspected out of which 5 were recommended for registration as " Approved Contractors ".

50. *The Madras Inspection Branch.*—The number of orders received during the year for inspection increased from 4,089 to 4,168 and their value, from Rs. 15,08,761 to 15,20,733. The value of stores inspected against Indian Stores Department orders was Rs. 14,80,257 against Rs. 15,03,611 in 1935-36 and Rs. 14,09,067 in 1934-35. Textile materials amounting to Rs. 25,402 were inspected on behalf of the Government of Mysore.

The activities of this Inspectorate in connection with the inspection of hardware and miscellaneous engineering stores are steadily increasing and during the year stores of the value of Rs. 10,81,750 were inspected and passed against Rs. 10,03,927 in the preceding year. The total value of textile stores inspected, however, decreased from Rs. 5,34,486 to Rs. 4,23,909. The reduction was chiefly due to a smaller quantity of drill, khaki, and twills purchased from manufacturing firms located in this area. The items of stores handled during the year included the following :—

Drills, khaki and bleached and twills.

Woollen blankets.

Diesel oil.

Lubricating oils.

Paint, white lead.

Bare copper wire.

Electric fans.

Electric lamps.

CHAPTER V.

The Metallurgical Inspectorate, Tatanagar.

51. *Work done.*—The labour unrest on the Bengal Nagpur Railway during the latter part of the year under review seriously affected the activities of the Tata Iron and Steel Company, which was unable to produce the scheduled quantity of steel on account of shortage of raw material. The turnover of the Metallurgical Inspectorate during the year did not, therefore, reach the level attained during the year 1935-36. The quantity of stores on which inspection fees were charged on a tonnage basis amounted to 2,73,644 tons against 3,27,467 tons during 1935-36. Stores inspected and charged on value amounted to Rs. 13,39,101 against Rs. 22,76,741 in the previous year. The total value of stores inspected during the year amounted to Rs. 357·2 lakhs against Rs. 419·19 lakhs and the total fees earned to Rs. 3,51,927 against Rs. 4,14,812 during the preceding year.

Full details of the work done by the Inspectorate on behalf of the various authorities during the year as compared with the three preceding years are given in Appendices XIII to XV and XVII.

The striking feature of the year under report was the inspection of the first instalment of material manufactured by Messrs. the Tata Iron and Steel Company, Ltd., for the construction of the New Howrah Bridge. The quantity of various steel sections inspected for this purpose was 2,133 tons.

The following is a list of the stores inspected and passed during the year :—

Description of Stores.	Quantity. Tons.	Value. Rs.
Rails, ordinary	46,991	44,64,145
Rails, medium manganese	34,267	32,55,365
Rails, chrome	1,591	1,90,920
Rails, II-Class	197	10,835
Fishplates, ordinary	20	2,660
Fishplates, high carbon	2,847	4,12,815
Structurals (Routine)	1,77,736	2,22,17,000
Steel sleepers	16,747	14,33,143
Crossing sleepers	636	76,874
Tie bars	60,000 Nos.	82,500
Black sheets	343	60,657
Cables (Routine)	43,81,780 yards.	10,95,445
Other cables	97,829 yards.	80,368

Description of Stores.	Quantity. Tons.	Value. Rs.
Copper conductors	748	6,53,706
Tin plates	275 Boxes.	4,572
Steel sections (Indian Steel Wire Products) ..	2,711	4,20,241
Pig iron	1,245	63,770
Oxygen gas	374,000 C. ft.	14,960
Sulphate of ammonia	5,720	4,97,640
Agricultural implements	63,163 Numbers.	76,532
Red oxide	176	22,880

The Tata Iron and Steel Co., Ltd.—As usual, inspection of rails and fishplates manufactured by Messrs. The Tata Iron and Steel Company, Ltd., against the demands of the Railway Board and other parties, and the certification of the structural steel manufactured by the Company formed the bulk of the work of the Inspectorate.

The Railway Board's demand was for 79,115 tons of rails and 2,795 tons of fishplates during the year against 69,833 tons of rails and 3,038 tons of fishplates of the previous year. Demands from other sources, including Railways owned and managed by Indian States, amounted to 4,631 tons of rails and 117 tons of fishplates, as compared with 6,187 tons of rails and 177 tons of fishplates during 1935-36. A total supply of 79,039 tons of rails and 2,869 tons of fishplates was made against these demands.

The Steel Company submitted for tests and certification 236,980 tons of structural steel against 291,176 tons during the preceding year. Nine thousand and seventyfive tensile tests were carried out in this connection against 10,509 during 1935-36.

Sixteen thousand six hundred and seventyone tons of steel pressed sleepers were inspected and passed for supply to the East Indian, North Western, South Indian and H. E. H. The Nizam's State Railways as against 14,921 tons during the previous year. In addition to this, the Company suppl ed 636 tons of crossing sleepers to the Great Indian Peninsula Railway and about 76 tons of II-class steel pressed sleepers to the Bombay Port Trust Railway which were also inspected by the Metallurgical Inspectorate. Approximately 124 tons of ship plates were inspected and passed to Lloyds Specification against 52 tons in the previous year.

Agricultural Implements Department of the Tata Iron and Steel Company, Ltd.—The Agricultural Implements Department put up 63,163 pieces of various railway track tools for inspection against orders placed by the Indian Stores Department as compared with 67,065 pieces in the previous year. The Company also supplied about 40 tons of tool steel during 1936-37 against orders placed by the Department.

The Indian Cable Company, Ltd.—During the year 47,710 coils (43,81,780 yards) of cables involving 9,062 electrical tests were certified against 65,673

coils (6,021,595 yards) involving 10,771 electrical tests in 1935-36. In addition to these, 97,829 yards of cable and 730 tons of copper conductors were inspeced against orders placed by the Indian Stores Department against 131,429 yards of cables and 1,294 tons of copper conductors during the preceding year. Eighteen tons of hard drawn copper wire were also inspected on behalf of the Assistant Stores Purchase Officer, United Provinces.

The Indian Steel Wire Products, Ltd.—The firm continued to submit their materials under the B. S. Specifications for necessary tests and certification. During the year 2,696 tons of materials of various sections were certified against 571 tons in 1935-36. In addition to the above, approximately 19 tons of steel wire and 15 tons of small steel sections were inspected against orders placed by the Indian Stores Department against 51 tons of steel wire in the preceding year.

The Indian Oxygen and Acetylene Company, Ltd.—During the year 374,000 cubic feet of oxygen gas supplied by the Company against orders placed by the Indian Stores Department were tested. This exceeds the previous year's record supply which was 283,000 cubic feet.

The Tinplate Company of India, Ltd.—Thirty thousand and eight hundred pieces of tinplate were supplied by the Tinplate Company of India, Ltd., and inspected against orders placed by the Indian Stores Department during the year as compared with 22,400 pieces in the previous year.

The Tatanagar Chemical Company, Ltd.—The sampling of red oxide of iron prepared and supplied by the Company to its customers was entrusted to the Inspectorate, from July 1936, and ten samples were taken during the year, involving about 176 tons of red oxide.

52. *Tests and Estimations.*—The number of estimations of carbon, silicon, manganese, sulphur, phosphorus, chromium, etc., totalled 21,443 against 17,914 in 1935-36. The figures include miscellaneous estimations amounting to 954 in number comprising determination of spelter, nickel, aluminium, etc. In addition 12 samples of ammonium sulphate representing various consignments amounting to 5,720 tons were taken and analysed, involving 66 chemical determinations on behalf of the Sulphate Federation. The previous year's corresponding figures were 12 samples, 6,515 tons of consignments and 66 determinations.

The total number of mechanical tests effected was 68,230 against 76,901 in the preceding year. These figures are exclusive of 2,176 tensile tests effected on copper conductors, 9,062 electrical tests and 1,442 wrapping, twisting and tinning tests for certification of cables and conductors.

53. *Investigations.*—Fortyeight investigations were undertaken as against 47 in 1935-36. The work involved 325 mechanical tests and 264 chemical determinations yielding a revenue of Rs. 2,696 as compared with 535 tests, 227 chemical determinations and a revenue of Rs. 3,744 in the previous year. The investigations were carried out on materials of various descriptions which failed in service and were sent to the Inspectorate to ascertain causes of failure.

54. *The Steel Ingots (Excise Duty) Order, 1934.*—The Metallurgical Inspector continued to check the accuracy of, and certify, the figures furnished

by Messrs. The Tata Iron and Steel Company under the Steel Ingots Excise Duty Order (1934).

In addition, the Metallurgical Inspector was responsible for issuing 1,161 certificates as against 916 in the previous year to enable Messrs. The Tata Iron and Steel Co., Ltd., to claim countervailing Excise Duty to which they are entitled, under the order referred to in the preceding paragraph. Fiftythree certificates were endorsed by the Metallurgical Inspector in connection with the drawback of Excise Duty in respect of consignments exported out of India as against 57 certificates issued during the year 1935-36. The Metallurgical Inspector was further empowered during the year to issue Drawback Orders against such exports and 108 orders were issued during the year, against the certificates endorsed during 1936-37 and outstanding from the previous year. The checking of the various records of the Steel Company for exportation of steel on which the drawback of Excise Duty was claimed increased the work in the Inspectorate.

CHAPTER VI.

The Government Test House, Calcutta.

55. *General.*—The number of samples dealt with in the testing sections during the year 1936-37 reached a figure only slightly below the highest previous record attained in 1928-29, and substantial progress was also made in expanding and consolidating the work of the Research Branch which commenced its activities in 1935-36. An account of the activities of the Research Branch has, as before, been included in the Administration Report of the Industrial Research Bureau, which has been published separately.

So far as the total number of samples tested and reported can be taken to be a measure of the activities of the original sections, the year 1928-29, which produced a total of 9,133 reported samples, has still to be regarded as the record year. Since that year there have been considerable fluctuations in the number of samples reported, but the year 1934-35 saw a definite improvement in the position which was to all intents and purposes maintained during the following year. The year under review shows an increase of 697 samples, or 8%, over the number of samples reported during 1935-36, and, as the total for the year is 9,026 samples the difference between this and the figure of 1928-29 quoted above would be seen to be small. The usual annual rate of increase in the work carried out on behalf of the Indian Stores Department was maintained, the total number of samples connected with this source being 5,672 during the present year as against 5,333 samples dealt with during the previous year. A substantial increase is also shown in the work carried out on behalf of the Defence Department, the number of samples reported in this connection being 405 as against the figure of 223 for the year 1935-36. As reported previously, the work on behalf of the Defence Department had been declining for a number of years, and as the increase recorded during the present year is mainly due to the samples of brick-earth, sand, ballast, etc., tested in connection with the Quetta Reconstruction, the general position as to the volume of ordinary work received from the Defence Department remains practically unaltered. Considerable increases are also recorded in the work carried out on behalf of the Company-managed railways, the Central Government Departments (Civil) and Public Bodies, such as Municipalities, Port Authorities, etc.

The volume of work dealt with on behalf of the Provincial Governments does not show any appreciable departure from the figure recorded last year and the same remark applies to the work carried out on behalf of privat concerns. On the other hand, compared with the figures for 1935-36, th numbers of samples tested on behalf of the State-managed railways and rail ways managed by Indian States show a decline.

A considerable number of visitors were conducted over the laboratorie of the Test House during the year. Early in July, 1936, the members of th Advisory Council of the Industrial Research Bureau, headed by the Hon'bl Sir Frank Noyce, Member-in-Charge of the Department of Industries an Labour, and the Hon'ble Mr. A. G. Clow, Secretary in the same Departmen paid a visit to the laboratories. Towards the end of the year a visit wa

paid by Sir Trevredyn Wynne, during whose tenure of office, as President of the Railway Board, the Government Test House was founded. He was accompanied by a representative group of officials of the Bengal Nagpur Railway. Arrangements were also made for the students of certain teaching institutions in India to be conducted round the laboratories.

A comparison of the work done during the year with the record of the three preceding years is shown in Appendices XIII and XVII and a list of the materials tested during the year is given in Appendix XVIII.

56. *Physical Section.*—The total number of samples tested in the Physical Section during the year was 4,979 as against 4,321 samples tested during the previous year, an increase of over 15%.

The number of samples tested on behalf of the Indian Stores Department, the Civil Departments of the Central Government, the Defence Department, the Company-managed Railways, the Provincial Governments, Public Bodies and Private Concerns showed varying increases, as will be seen from the following figures :—

	Number of samples tested in	
	1936-37.	1935-36.
1. Indian Stores Department	2,910	2,833
2. Other Civil Departments of the Central Government	124	101
3. Defence Department	178	16
4. Company-managed Railways	249	45
5. Provincial Governments	155	87
6. Public Bodies	169	47
7. Private Concerns	934	825

The numbers of samples tested on behalf of the State-managed Railways and the Indian States showed slight decreases, as will be evident from the figures given below :—

	Number of samples tested in	
	1936-37.	1935-36.
State-managed Railways	251	328
Indian States	1	29

The number of samples tested in the Cement, the Electrical, the Heavy Mechanical and the Textiles sub-sections showed varying increases during the year under review, as represented by the following figures :—

	Number of samples tested in	
	1936-37.	1935-36.
Cement sub-section	907	822
Electrical sub-section	793	476
Heavy Mechanical sub-section	1,219	1,031
Textiles sub-section	1,248	1,148

The increase of work in the Cement sub-section is principally due to a slightly larger number of cement samples tested on behalf of private parties and to the large number of samples of brick-earth, sand, ballast, etc., tested in connection with the Quetta Reconstruction.

The very substantial increase of work in the Electrical sub-section is mainly due to the larger number of electric lamps tested during the year.

The increase of work in the Heavy Mechanical sub-section is mainly due to the larger number of cement concrete test-blocks tested, and that in the Textiles sub-section to the larger number of non-mettalic ropes tested during the year.

The number of samples tested during the year in the Light Mechanical sub-section showed a slight decrease, being 812 samples as against 844 samples tested in the previous year.

57. *Special Investigations* (*Physical*).—In addition to the routine testing the following special investigations were carried out during the year :—

(1) Investigation in connection with the determination of the effect of variation of atmospheric humidity and the moisture content on the strength of proofed and unproofed jute fabrics.

(2) Comparative tests to determine the effect of temperature variation on the syphoning properties of worsted trimmings for use in oil cups in locomotives.

(3) Comparative tests to determine the relative water-proofing qualities of various brands of cement water-proofing compounds.

(4) Comparative tests to determine the suitability of various samples of calcareous clay for the purpose of brick manufacture in connection with the Quetta Reconstruction.

(5) Comparative tests on various ingredients of cement concrete for designing the most efficient mix of concrete of each batch of ingredients in connection with the construction of the New Howrah Bridge.

(6) Investigation in connection with the determination of the best method of testing abrasive cloths and glass papers for the standardisation of the testing procedure.

The work in connection with the road test track, of which mention was made in paragraph 54 of the Report for 1935-36 was transferred to the Research Branch and an account of the progress made in the scheme has accordingly been included in the report of the Industrial Research Bureau.

58. *Chemical Section.*—The total number of samples tested by the Chemical Section including the Oil sub-section during the year under review was 4,047 as against the figure of 4,008 recorded for the previous year. The separate figures for the general Chemical sub-section and the Oil sub-section are as follows :—

	1936-37.	1935-36.
General Chemical sub-section	2,939	2,920
Oil sub-section	1,108	1,088

It will be seen from these figures that although slight increases were recorded by both the sub-sections during the year under review, the work of the Chemical Section as a whole, as measured by the number of samples tested, showed hardly any appreciable departure from that of the previous year.

The following figures show how the work carried out during 1936-37 on behalf of the various Government Departments and other authorities compares with that of the previous year.

Department.	Number of samples reported in 1936-37.			Number of samples reported in 1935-36.		
	Chemical Laboratory.	Oil Laboratory.	Total.	Chemical Laboratory.	Oil Laboratory.	Total.
1. Indian Stores Department ..	2,079	683	2,762	1,800	700	2,500
2. Central Government Departments (Civil) ..	124	14	138	98	11	109
3. Defence Department	67	160	227	52	155	207
4. Provincial Governments	55	34	89	160	6	166
5. State-managed Railways ..	87	33	120	139	8	147
6. Company-managed Railways ..	52	2	54	76	..	76
7. Railways managed by Indian States	39	..	39	57	3	60
8. Indian States ..	12	1	13	9	..	9
9. Quasi-Public Bodies	60	13	73	68	24	92
10. Private Concerns	364	168	532	461	181	642
Total number of samples reported ..	2,939	1,108	4,047	2,920	1,088	4,008

The work carried out on behalf of the Indian Stores Department showed a substantial increase over that of the previous year, and varying increases were also shown by the work carried out on behalf of the Central Departments (Civil) and the Indian States. As in the case of the Physical Section, there was also a slight increase in the number of samples received from the Defence Department which was due to the comparatively large number of samples of aviation spirit received for test, owing to the facilities for the determination of the anti-knock value available as a result of the installation of the C. F. R. Engine Unit in 1935-36.

There was on the other hand a decline in the work done on behalf of the Provincial Governments, Railways, Public Bodies and Private Concerns.

The following figures show how the position regarding the three most important items in the Chemical Section, namely (1) paints, varnishes, etc., (2) lubricating oils and (3) coal, compares with that of the previous year:—

Materials.	1936-37.	1935-36.
Number of samples of paints, varnishes, etc., tested ..	843	752
Number of samples of lubricating oils tested	522	525
Number of samples of coal tested	158	234

It will be seen that while there was a substantial increase in the number of paints, varnishes, etc., tested and practically no decrease in the number of lubricating oils, the number of coal samples received for test was considerably smaller than that dealt with during the previous year. This was due to the diminished activities of the Coal Grading Board.

A photograph of the paint testing machinery installation at the Government Test House, showing the triple roll, vortex mixtures and edge runner mills, faces this page.

59. *Exposure Test Panels.*—Exposure tests were continued on the various panels exposed in previous years. During the year such tests were commenced on 125 steel panels and 105 wood panels.

The total number of panels (steel and wood) painted with paints, enamels, varnishes, cellulose lacquers, which have been exposed since the commencement of the exposure test work, is 1,885.

During the year under review a considerable amount of Exposure tes work was initiated in conjunction with the Railway Board. This work refer entirely to the question of suitable wagon paint. The first two series of thes panels were prepared in duplicate, one set being exposed at the Test Hous and the other at New Delhi. The third series was prepared in quadruplicat and the panels were exposed at Alipore, New Delhi, Lahore and Bombay On each of these occasions a Chemical Assistant of the Test House personall supervised the erection of panels at the various centres.

60. *Standard Samples.*—The total number of standard samples of paint enamels, varnishes, etc., received up to the end of 1936-37 was 3,239. Th number of samples tested during 1936-37 was 156; and 531 standard sampl remained to be tested at the end of the year.

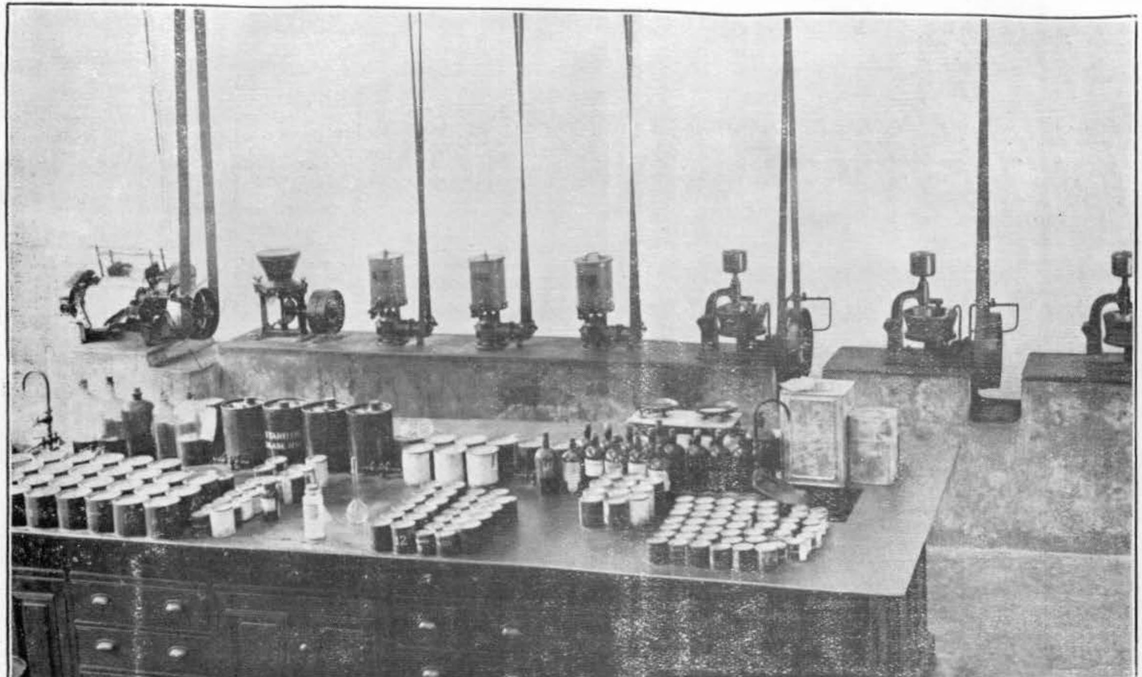
The number of new standard samples of lubricating oils reported upo during the year under review was 148. Special tests were carried out on samples during the year.

61. *Special investigations (chemical).*—The following special investig tions were carried out by the Chemical Section during the year:—

(1) Rapid corrosion of rails at Howrah Station.

(2) Electric strength of insulating varnishes.

3) Burning qualities of kerosenes



The Paint Testing Machinery Installation at the Government Test House, Alipore.

(*Vide* Paragraph 58.)

(4) Fluctuations in the moisture content of sal-ammoniac on exposure and of the method of determination of moisture in the materials.

(5) Efficacy of the Ascu treatment of timber.

(6) A special heat-resisting paint.

(7) Problem relating to the setting of red oxide in ready-mixed paint.

(8) Streaking of red oxide paint when sprayed on.

(9) Corrosive sulphur contents of petrol and benzol.

62. *Specifications.*—The following specifications were either drafted or revised during the year under review :—

(*a*) *Physical.*

(1) I. S. D. specifications for cotton wicks suitable for kerosene (other than signal lamp wicks).

(2) I. S. D. draft specification for abrasive cloths and glass papers.

(3) I. S. D. draft specification for Leclanche type primary cells.

(4) I. S. D. draft specification for porcelain insulators, pin and shackle type, for overhead transmission line up to 650 volts working pressure.

(5) I. S. D. specification for bronze wire for telegraphs and telephones.

(6) I. S. D. draft specifications for various types of flexible cords and cables.

A number of draft British Standard Specifications were also commented upon during the year.

(b) *Chemical.*

(1) Specification for cobalt driers.

(2) Specification for goldsize, heavy body.

(3) Specification for stand oil.

(4) Specification for turpentine, 2nd quality.

The I. S. D. Specification for paints, varnishes, lubricating oils, fuel oils, kerosenes, vegetable oils, greases, etc., were revised during the year.

A number of draft B. S. Specifications were scrutinised and commented upon. The following further specifications were also commented upon :—

(1) Indian Ordnance Factory specification for oil for use as a seal in ammonia gas holder.

(2) N. W. Railway Specification for aluminium paste.

63. *Plant and Apparatus.*—The following items of Plant and Apparatus were added to the laboratories of the Test House during the year :—

(1) Pensky-Martens Closed Flash Point Apparatus I. P. T.

(2) Ring and Ball Melting point Apparatus.

(3) Lamp, Sodium, Complete for Polarimeter.

(4) Smoke Point Lamp I. P. T.

(5) Thermo-Voltmeter No. A-12538.

(6) Twist Drill Grinder, Complete.

An illustration of the Photo-Electric spherical photometer appears as frontispiece to the Report.

CHAPTER VII

REGISTRATION OF FIRMS.

64. *Registration of firms in the Headquarters list.*—The number of firms registered on the books of the Department as approved manufacturers or suppliers of stores of various descriptions increased from 3,631 at the end of the year 1935-36 to 3,658. Full details of this number including the areas in which they are located and the classes of stores they manufacture or supply are given in the following statement :—

Description of stores.	Bengal.	Bombay.	Sind.	Madras.	Punjab.	United Provinces.	Delhi.	Burma.	Bihar.	Orissa.	Central Provinces.	Assam.	N. W. F. P.	Other than British Possessions.	Firms outside India	Total.
1. Stores falling under Rule 4 of the Rules for the supply of articles required to be purchased for the public service :—																
Important plant and machinery and iron and steel work.	29	7	2	1	..	1	..	1	2	..	..	..	..	..	1,103	1,146
Other Stores.																
2. Railway materials	78	53	5	11	16	4	11	8	5	..	..	1	..	1	73	266
3. Mechanical equipment	181	146	22	35	37	17	25	32	4	..	..	1	..	8	229	737
4. Electrical equipment	118	96	19	27	29	14	22	15	3	..	..	..	1	9	151	504
5. Structural engineering	21	7	3	1	4	2	7	3	..	..	..	..	..	2	1	51
6. Hardware	117	35	23	24	38	36	19	13	4	..	1	1	1	10	50	422
7. Implements and tools	71	47	9	15	22	15	13	11	..	..	..	2	1	3	41	250
8. Metals	101	69	16	17	21	10	18	15	5	..	1	..	1	3	31	308
9. Oils	59	38	4	15	13	12	7	8	1	..	..	2	..	8	12	179
10. Paints	66	47	14	17	8	2	7	8	2	..	1	2	..	5	14	193
11. Chemicals (excluding medicines and drugs).	57	29	8	7	12	8	8	9	1	..	..	..	..	3	5	147
12. *Textile stores.*																
(*a*) Cotton materials	92	87	4	12	45	38	22	10	..	..	4	..	2	9	15	340
(*b*) Woollen materials	25	21	2	6	15	22	6	2	..	..	..	..	1	13	2	115
(*c*) Jute, flax and hemp materials ..	65	25	6	3	19	8	4	5	1	..	1	..	..	3	8	143
(*d*) Silk goods	..	..	..	..	..	1	..	..	..	..	..	..	..	1	8	10
13. Leather goods	23	17	4	3	13	22	5	3	..	..	..	..	..	..	..	90
14. Miscellaneous stores	332	249	48	58	116	80	78	44	8	..	12	3	3	22	119	1,172
15. Scientific instruments and Laboratory equipment.	33	16	1	5	10	4	3	2	..	..	1	..	..	..	17	92
Total ..	1,468	1,039	190	257	418	296	255	189	36	..	21	12	10	106	1,879	6,170
Overlapping figures for firms registered for more than one item.	896	585	101	129	159	112	128	120	10	..	5	9	3	41	214	2,512
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	184	127	69	26	..	16	3	7	59	1,665	3,658

65. *Registration of firms on local Purchase Circles Lists.*—In addition to the number of firms mentioned in the preceding paragraph, 52 firms were added to the local lists of approved suppliers maintained for the use of the Provincial organizations of the Department. Of these 27 are located in the Bengal Presidency, 19 in the Bombay Presidency and 6 in the Karachi area. The total number of firms registered on local lists in various territories on the 31st March 1937 was as follows :—

Territory.	Registered on the list of the Controller of Purchase, Calcutta Circle.	Registered on the list of the Controller of Purchase, Bombay Circle.	Registered on the list of the Controller of Purchase, Karachi Circle.	Total.
Bengal	325	..	..	325
Bombay	..	212	..	212
Sind	..	..	116	116
Madras	16	16	..	16
United Provinces	2	..	..	2
Bangalore (Civil and Military station)	1	1	..	1
Bangalore (Mysore State)	3	3	..	3
Total ..	347	232	116	675

66. *List of firms registered for Important plant, machinery and iron and steel work.*—This list is issued under the provisions of Rule 4 of the "Rules for the supply of articles required to be purchased for the Public Service". Seventythree new firms were registered and the names of 120 firms were removed from the list during the year. The total number on the list at the end of the year stood at 1,146. This list, though mainly issued for the information of the purchasing officers of the Central Government, has been adopted by several Local Governments. Copies of the list can be obtained, on payment, from (*i*) The Manager of Publications, Civil Lines, Delhi, (*ii*) The Government of India Book Depot, 8, Hastings Street, Calcutta and (*iii*) The Office of the High Commissioner for India, India House, Aldwych, London, W. C. 2.

CHAPTER VIII.

ENCOURAGEMENT OF INDIAN INDUSTRIES, PURCHASES OF INDIGENOUS PRODUCTS AND OTHER ACTIVITIES OF THE DEPARTMENT.

67. *Advice to manufacturers and encouragement to Indian Industries.*—Work was continued during the year to assist manufacturers in India to improve the quality of their products by means of technical advice and suggestions in the course of purchase and inspection and every endeavour was made to substitute supplies of indigenous manufacture, wherever possible, without sacrifice of economy and efficiency. A few notable instances are cited in the following paragraphs :—

(1) *Putties, service dress, knitted.*—These putties for the use of the Army had hitherto been obtained from abroad as no firm in India had the necessary machinery to manufacture them. As the annual requirements are very substantial, the Department interested mills in India and, after prolonged efforts, a mill in Cawnpore produced a satisfactory article. A trial order was placed and, as the result was satisfactory, orders for 128,485 pairs valued at Rs 2,56,850 were placed with Indian manufacturers.

(2) *Cord, cotton, khaki.*—The manufacture of cord, cotton, khaki (Corduroy) in India to the Army standard of quality has been engaging the attention of the Department for some time past. Although indigenous material of slightly lower quality than the Army standard was manufactured by an Indian mill in the Madras Presidency and was purchased for the requirements of Civil indentors, it was only this year that the same mill succeeded in producing a material up to the Army standard. An order for 25,500 yards has been placed with them.

(3) *Lint.*—In the past it was the practice of an indenting authority to purchase lint absorbent to B. P. quality through the Director General, India Store Department, London. Standard samples with copies of specifications were sent to mills in India who were interested in this class of manufacture. Counter-samples submitted by them were found defective in respect of quality of linting, easy tearability, etc. The defects were pointed out to the firms to enable them to evolve an acceptable quality of material and, after continued efforts, one firm succeeded in producing a sample which was approved by the indentor concerned. The officer has agreed to obtain his future requirements from manufacturers in India.

(4) *Mosquito netting.*—Mention was made in paragraph 66 of the Report for the previous year that the manufacture of mosquito netting in India had been engaging the attention of the Department for some time and a quality acceptable to the Civil Indentors was produced by a mill in India. As the annual requirements of the Army were about 350,000 yards, which were hitherto

imported from abroad, the Department continued its activities with a view, if possible, to divert the demand to India. The mill concerned, after prolonged and continuous efforts, succeeded in producing a sample which was approved by the Army Inspectorate, subject to the rectification of a few minor defects such as correcting of weight and sizing in bulk supply. A trial order for 20,000 yards for supplies to be made to the Army standard of quality was placed during the year.

(5) *Buttons, white metal.*—Against tenders invited by the Department for these buttons a competitive offer was received from an Indian manufacturer, but the sample which accompanied the tender was not acceptable as it exhibited a number of defects. These were pointed out to the firm and a sealed sample was also sent to enable them to prepare new dies. With the assistance given by the Department, the firm have now been able to produce buttons to the required standard.

Among other articles to which special attention was devoted during the year, for the purpose of developing their manufacture in India or their utilization in preference to imported articles, the following may be mentioned:—

Ceiling and table electric fans, steel cupboards, wire brushes, valves push and release, hurricane lanterns, Entomological Postal and insect store boxes, hooks hat and coat, and carriage and wagon fittings for Railways.

68. *Exhibition of Indian manufactures.*—Mention has been made in the previous reports of the arrangements made in the Imperial Secretariat Buildings, New Delhi, for exhibiting art cles of indigenous manufacture. The exhibition comprises a fairly large collection of articles wholly or partially manufactured in India. During the year under review samples of a leather dust shield, a cash bag, shoes and boots were added to the previous collections.

69. *Important purchases of articles of Indian manufacture.*—The Department continued its efforts to substitute, wherever possible, and without sacrifice of efficiency or economy, articles of indigenous manufacture for imported products. The following is a list of the more important contracts placed during the year for products which were wholly or partially produced or manufactured in India :—

Textiles and Leather Goods.

	Rs.
Drills	12,52,000
Tents and tent components	9,82,000
Blankets	9,74,000
Greatcoats and greatcoat cloth	6,38,000
Jackets, cardigan, waistcoat, jerseys, etc.	6,15,000
Cotton waste	6,15,000
Pugree cloth, dyed and bleached	4,34,000
Serges	4,01,000

Textiles and Leather Goods—contd.

	Rs.
Socks, stockings, gloves, etc.	3,47,000
Putties, cotton and woollen	3,28,000
Flannel	3,07,000
Sheets, ground	2,66,000
Wool cotton, absorbent	2,32,000
Yarn, cotton and woollen	2,27,000
Blanketting cloth	1,54,000
Ropes, manilla (head and heel), etc.	1,35,000
Rugs, horse	1,33,000
Duck cotton	1,27,000
Sheets, barrack and hospital	1,24,000
Dhoti cloth, dosuti cloth and long cloth	1,15,000
Paulins	1,14,000
Bags, postal, jute, etc.	1,09,000
Carpets	1,08,000
Cordage, manilla, hemp , etc.	1,00,000
Durries	98,000
Tape and webbing	86,000
Boots, shoes, etc.	85,000
Hessians and gunnies	84,000
Flannelette	82,000
Thread, sewing and twines	80,000
Twill, cotton	78,000
Bandage cloth	77,000
Cloth, cord	74,000
Cloths, jaconet, dungree, etc.	74,000
Capes, coats and hoods, waterproof	73,000
Drawers, cotton and woollen	67,000
Kanats for Aerodrome hangars	58,000
Towels and towelling cloth	54,000
Garments, uniform	51,000
Hides and skins and leather accoutrements	51,000
Gauze, absorbent	47,000
Dusters, handkerchiefs, etc.	41,000
Covers and nets, tank, mule, etc.	35,000
Wool, stuffing, packing and trimming	28,000
Caps, balaclave, comforters, etc.	22,000
Cloth, baize and Oxford	17,000
Coir and coir-made articles	17,000

Textiles and Leather goods—contd.

	Rs.
Nets, mosquito	15,000
Cases, pillow, mattresses, etc.	14,000
Kullahs, lungies, fringes, etc.	13,000
Cloth stockinette	13,000
Mattresses	11,000
Shirts, blouses, etc.	10,000
Cloth, cotton, drab, waterproof	10,000
Buntings and flags	10,000
Canvas, jute	10,000

Engineering and Miscellaneous Stores.

Steel sections and sheets	24,37,000
Cement	20,98,000
Paints, varnishes, etc.	16,83,000
Road dressing materials	16,27,000
Oil, kerosene	15,82,000
Railway track and fittings	13,87,000
Lubricating oils and greases	9,70,000
Pipes and specials, C. I.	6,67,000
Cables, conductors, etc.	6,63,000
Steel structures, tanks and stagings	6,58,000
Charpoys, galvanised iron	4,70,000
Anchors, rail and plates	4,30,000
Component parts for Railway carriage underframes and screw couplings	4,11,000
Cranes, lifts and traversers	3,94,000
Pig iron	3,38,000
Coal and coke	3,06,000
Petrol	2,59,000
Gas, oxygen	2,44,000
Fittings, carriage and wagon	2,36,000
Oil, linseed	2,35,000
Pig lead	2,23,000
Sheets, galvanised iron	2,13,000
Vacuum brake fittings	1,91,000
Bricks, fire and fireclay	1,83,000
Fans, electric	1,67,000
Turpentine	1,52,000
Oil, castor	1,39,000
Bolts and nuts	1,34,000
Acids and chemicals	1,23,000

Engineering and Miscellaneous Stores.

	Rs.
Cells, electric, primary	1,18,000
Timber	1,01,000
Creosote	93,000
Sheets, asbestos cement	85,000
Pipes and fittings, stoneware	80,000
Lamps, electric	77,000
Tools including track tools, hand tools and workshop tools	74,000
Signalling and interlocking materials	61,000
Oil, fuel	60,000
Locks	53,000
Soaps	51,000
Dust shields, leather	50,000
Safes, chests, etc.	49,000
Pipes, Hume	43,000
Point rodding	36,000
Gas, acetylene	32,000
Insulators	31,000
Fittings, water	31,000
Fittings, electric	30,000
Sea and river craft	27,000
Belting	26,000
Oil, gas making	25,000
Spirit, methylated	25,000
Keys, wooden, babool	22,000
Cooking ranges	22,000
Sheet, lead	21,000
Fittings, door and window	21,000
Antimony ingots	20,000
Weighbridges and weighing machines	17,000
Detritus screening plant	17,000
Shellac	17,000
Scales and weights	16,000
Wire, steel	16,000
Graphite and plumbago	15,000
Dynamos, trainlighting, and spares	14,000
Disinfectants	13,000
Letter boxes	13,000
Couplers, intervehicle	12,000
Locomotive fittings	12,000
Wire, G. I.	12,000
Crockery	11,000
Tallow	10,000
Brushes	10,000

70. *Certification of material for exemption of Customs duty.*—The Metallurgical Inspector, Tatanagar, who has been entrusted with the duty of issuing certificates for exemption of Customs duty in regard to certain items of raw materials used by Messrs. The Indian Cable Co., Ltd., certified 3,413 tons of copper rods during the year under review, for the manufacture of copper wires, cables, etc., by the company.

The Controller of Inspection, Bombay Circle, issued similar certificates during the year for approximately 2,348 tons of wire rods imported by Messrs. The Indian Hume Pipe Co., Ltd., for the manufacture of wire and wire nails.

The Assistant Controller of Inspection, Karachi, also issued exemption certificates for approximately 507 tons of wire rods imported by Messrs. Devidas Jethanand & Co., Karachi, for the manufacture of wire nails, etc. The concession granted by the Government of India for the free importation of wire rods by this firm expired on the 31st October 1936.

---

analysed for exemption of Customs duty. The Metallurgical Inspector, Tatanagar, who has been entrusted with the duty of issuing certificates for exemption of Customs duty in regard to certain items of raw materials used by Messrs. The Indian Cable Co., Ltd., certified 3,412 tons of copper rods during the year under report, for the manufacture of copper wire, cables etc., by the company.

The Controller of Inspection, Bombay Circle, issued similar certificates during the year for approximately 2,348 tons of wire rods imported by Messrs. The Indian Hume Pipe Co., Ltd., for the manufacture of wire and wire netting.

The Assistant Controller of Inspection, Karachi, also issued exemption certificates for approximately 50 tons of wire rods imported by Messrs. Haji Mohammad & Co., Karachi, for the manufacture of wire nails, etc. The concession granted by the Government of India for the free importation of wire rods by this firm expired on the 31st October 1938.

CHAPTER IX.

FINANCE.

71. *Statistics of Income and Expenditure.*—A financial statement showing the income and expenditure of the Department for the year 1936-37 and similar information for each of the preceding three years will be found in Appendix XIX.

The statement includes, under income, recoveries from Provincial Governments, Commercial departments and undertakings of the Central Government and non-Government authorities. It also includes a *pro forma* credit, calculated at schedule rates, for work done on behalf of non-commercial civil departments of the Central Government against whom no charges are made.

The figures on the expenditure side of the statement include all direct expenditure as well as items of indirect charges which are usually incorporated in the Profit and Loss accounts of commercial undertakings.

The total direct and indirect expenditure for the year 1936-37 amounted to Rs. 25,81,895 exceeding the corresponding figure of the preceding year by Rs. 55,001. The increase is due to the normal growth of expenditure on account of annual increments, etc., employment of additional staff necessitated by a large increase in the volume of work handled by the Department and corresponding increase under stationery and printing and audit charges. The credit side of the account shows a deterioration of Rs. 1,92,805 as compared with the preceding year, which is made up of deficits of Rs. 49,382 under Purchase fees on Indian Stores Department orders and of Rs. 1,57,507 under Inspection fees on non-departmental orders, while inspection fees on Indian Stores Department orders and miscellaneous receipts show an improvement of Rs. 7,353 and Rs. 6,731 respectively. The deficit under Purchase fees is due to the adjustment of a rebate of Rs. 60,014 to Railway administrations on the transactions relating to 1935-36, while a sum of Rs. 21,282 only, which related to the purchases made in 1934-35, was adjusted in the accounts for 1935-36, and also a large portion of the orders placed during the year having not been completed and accounted for within the year. The deficit under fees earned on stores purchased by other Departments the inspection of which was entrusted to the Department was due to decrease in the value of orders for wagons and in the quantities of rolled steel and cast iron sleepers inspected on behalf of the Railway Administrations, and to the labour unrest on the Bengal Nagpur Railway which affected the outturn of the Tata Iron & Steel Co., as explained in paragraphs 3 and 51.

J. S. PITKEATHLY,

Chief Controller of Stores,

Indian Stores Department.

SIMLA;

Dated the 9th July 1937.

CHAPTER IX.

REMARKS.

31. *Statement of Revenue and Expenditure.*—A financial statement showing the income and expenditure of the Department for the year 1936-37 and similar information for each of the preceding three years will be found in Appendix XIX.

The statement includes under income recoveries from Provincial Governments, Commercial Departments and undertakings of the Central Government and non-Government authorities. It also includes a *pro forma* credit, calculated at schedule rates, for work done on behalf of non-commercial civil departments of the Central Government against whom no charges are made.

The figures on the expenditure side of the statement include all direct expenditure as well as items of indirect charges which are usually incorporated in the Profit and Loss accounts of commercial undertakings.

The total direct and indirect expenditure for the year 1936-37 amounted to Rs. [illegible], exceeding the corresponding figure of the preceding year by Rs. [illegible]. The increase is due to the normal growth of expenditure on account of annual increments, the employment of additional staff consequent on a large increase in the volume of work handled by the Department and increased charges for [illegible] stationery and printing and audit charges. The receipts of the Department show an increase of Rs. 1,80,805 as compared with the preceding year, which is made up of an increase of Rs. 41,353 under Purchase fees on Indian Stores Department orders and of Rs. 1,52,857 under Inspection fees on non-departmental orders, while Inspection fees on Indian Stores Department orders and miscellaneous receipts show an improvement of Rs. [illegible] and Rs. [illegible] respectively. The decline under Purchase fees is due to the adjustment of a rebate of Rs. 90,011 to Railway Administrations on the [illegible] relating to 1935-36, while a sum of Rs. 31,282 only, which [illegible] was adjusted in the accounts for 1935-36, and also a larger portion of the orders placed during the year having not been completed and accounted for within the year. The [illegible] under [illegible] the inspection of which was [illegible] was due to decrease in the value of orders for [illegible] quantities of rolled steel and cast iron sleepers inspected on behalf of the Railway Administrations, and to the labour unrest on the Bengal Nagpur Railway which affected the output of the Tata Iron & Steel Co., as explained in paragraphs 2 and 23.

I. S. PURKAYASTHA (?),

Chief Controller of Stores,

Indian Stores Department.

SIMLA:

Dated the 9th July 1937.

APPENDIX I.

(*Vide* paragraph 8.)

Hints for the guidance of authorities in India desirous of utilising the services of the Indian Stores Department.

Authorities for which the Indian Stores Department is permitted to Act.—The Indian Stores Department is authorised to arrange for the purchase and inspection of stores on behalf of all Government Departments, Central as well as Provincial, State and Company Railways, Indian States and *quasi*-public bodies in India. It must be understood, however, that the Department acts merely as an agent in this connection and is not in any way responsible as principal either to the seller or to the buyer.

2. The services of the Department can be utilised for the inspection of stores, orders for which are placed by the consuming authorities direct, and for the testing and analysis of materials at the Government Test House and the Metallurgical inspectorate, by Government departments, Company Railways, *quasi*-public bodies and Indian States, as well as by private parties.

3. *Classes of stores which can be purchased through the Indian Stores Department.*—The Indian Stores Department undertakes to arrange for the supply of all classes of stores except:—

(1) Foodstuffs and forage.

(2) Lethal stores.

(3) Stationery stores, printing stores and office machinery and appliances as detailed in the appendix to the Rules for the Supply of Printing and Stationery Stores for the Public Service.

(4) Medical stores.

(5) Mathematical instruments, which, under standing orders, are to be obtained from the Mathematical Instrument Office.

(6) Scientific instruments and accessories of a special character which involve a departure from standard.

(7) Straw, firewood and charcoal.

(8) Road metal, bricks, stone, marble and similar building materials, lime, sand, and chalk.

(9) Indian made wooden and cane furniture, country carts and boats, ordinary packing cases, hand carts, trucks and trolleys which can be satisfactorily and economically obtained from local sources.

4. *Organisatoin of the Purchase Branch.*—Besides a purchase branch in the Headquarters office, divided into a number of sections dealing with different classes of stores, which is located at Simla from the middle of April to the middle of October and at the Imperial Secretariat Buildings, New Delhi, during the rest of the year, Provincial Purchase circles are located at Calcutta, Bombay and Karachi. The Postal and Telegraphic addresses of these Circles and their scope of operations are given below :—

Postal Address.	*Telegraphic Address.*	*Territory within which allowed to operate.**
Controller of Purchase, Calcutta Circle, Indian Stores Department, 6, Esplanade East, Calcutta.	Storchase, Calcutta	Bengal, United Provinces, Assam, Bihar, Orissa, Delhi, Madras Presidency (Northern parts), Burma, the Punjab and anywhere in India in the case of indents received from indenting authorities in the Andamans.

*(This has reference to the market in which the order is placed and not to the headquarters of the indenting officer.)

Postal Address.	*Telegraphic Address.*	*Territory within which allowed to operate.**
Controller of Purchase, Bombay Circle, Indian Stores Department, Hararwalla Building, Wittet Road, Ballard Estate, Bombay.	Storchase, Bombay ..	Bombay Presidency, the Central Provinces, the Madras Presidency (Southern and Western parts), the Punjab, Delhi and Cawnpore (for textiles only), Calcutta for proprietary articles for the Great Indian Peninsula Railway.
Controller of Purchase, Karachi Circle, Indian Stores Department, P. B. 351, Sadar, Karachi.	Storchase, Karachi ..	Sind, Baluchistan, the Punjab, Delhi and Cawnpore (for textiles only.)

5. Indents may be placed with the Provincial Controllers of Purchase at Calcutta, Bombay and Karachi, up to the limits detailed below. Indents exceeding these limits should be placed on the Headquarters office.

I. Controller of Purchase, Calcutta Circle—

(1) For Jute goods up to Rs. 50,000.

(2) For other stores up to Rs. 15,000.

II. Controller of Purchase, Bombay Circle—

(1) For cotton yarn for the Jail Department, Bombay, up to Rs. 25,000.

(2) For the requirements of the Royal Indian Navy, up to Rs. 15,000.

(3) For other stores up to Rs. 15,000 (subject to the condition that no single item or interconnected items exceed Rs. 5,000.

III. Controller of Purchase, Karachi Circle—

(1) For mild steel sections for which orders have to be placed elsewhere than at Calcutta or Bombay, up to Rs. 15,000.

(2) For other stores—up to Rs. 15,000 subject to the condition that, except in the case of indents from the Military Engineer Services, Western Command, no single item, or interconnected items, exceed Rs. 5,000.

The above limits do not apply to requisitions against rate contracts arranged by the Headquarters office (or against running contracts on which the Provincial Controllers are permitted to operate.)

6. *Instructions for the preparation of indents.*—Indents should be submitted on the standard Indian Stores Department Indent form (I. S. D.-28) supplies of which can be obtained on application from the office of the Chief Controller of Stores or from any of the Purchase Circles at Calcutta, Bombay and Karachi, or inspectorates at Lahore, Cawnpore, Madras and Tatanager. The items indented for should be described in sufficient detail and any additional information should be given which will assist in the disposal of the indent, *e.g.* references to catalogues or to previous supplies. The purpose for which stores are required should always be stated and reference to previous supply should be made when duplicates are required.

7. As different classes of stores are dealt with in different sections of the Purchase Branch of the Indian Stores Department, separate indents should, as far as practicable, be prepared for stores falling under various classes, namely :—

(1) Power plants and spares, *e.g.*, generators, transformers, switchgear, etc., train lighting equipment, *e.g.*, dynamos, batteries, accumulators, etc., locomotive beacons and floodlights ; radio and wireless stores and equipment for broadcasting ; X-ray equipment ; aviation lighting equipment ; motors and control gears ; arc welding plants ; lighthouse equipment ; water turbines ; boilers, steam, gas, and oil engines ; lifts and hoists ; refrigerating and ice plants ; refuse destructors.

* (This has reference to the market in which the order is placed and not to the headquarters of the indenting officer.)

(2) Pumping plants; chlorinators; water softening plants; filtration plants; petrol pumps; air compressors; vacuum exhausters; condensing and distilling plants; cranes; water supply stores, *e.g.*, C. I. pipes and specials; M. S. pipes and fittings, Asbestos pipes, Hume pipes, water meters, hydrants, valves and cocks of different kinds; lead wool and spun yarn for joining pipes.

(3) Motor vehicles; tractors; sea and river craft; workshop machinery; pneumatic tools; industrial and agricultural machinery; concrete mixers and asphalt plants; textile machinery; boring plants; draglines and road rollers; road making machinery; forges; winches; traction graders.

(4) Electrical stores (including transmission and distribution materials); electric signalling apparatus; electrodes; measuring instruments; telephone and telegraph equipment and electric fittings for railway carriages.

(5) Structural steel of all kinds; bridges and girder spans; wheels, axles and tyres for railway rolling stock; tanks and stagings; canal regulators and gates; excavators.

(6) Component parts of underframes and wagons; screw couplings; buffers and buffer parts; axle boxes and dust shields.

(7) Fire extinguishers; boiler and flue tubes; superheater elements; weighing machines; ball and roller bearings; T. L. belting; workshop belting; hose, canvas and rubber; feed pipes; stoneware pipes and fittings; lawn mowers.

(8) Permanent-way materials; *e.g.*, rails, sleepers, points and crossings, drawgear track fittings and equipment; point rodding and signalling and interlocking materials; steel wires; wire ropes; pig iron; nonferrous metals.

(9) Steel sections; tools steel and spring steel; steel sheet piling; metal sheets of all kinds including metal expanded; plates steel trough, panel plates and tin plates, steel door and window frames and fittings; asbestos cement sheets; bearing metals; dog spikes and round spikes for permanent-way; bolts and nuts (including fish bolts and nuts), nails and screws.

(10) Oils and greases; liquid fuel; castor oil; cocoanut oil; gas making oil; petrol; kerosene; tallow; candles; creosote; road dressing materials; caustic soda; acids; sulphate of copper; sulphate of alumina; alumina ferric; soap; explosives and disinfectants.

(11) Paints and painter's materials, including linseed oils; shellac, turpentine and methylated spirits, gold leaf; paint removers; roofing material such as "ruberoid"; metal polish, liquid chlorine, ammonium chloride, chloride of lime, compositions, gases, graphite and plumbago (foundry) and calcium carbide.

(12) Cement, coal, coke, hand tools including track tools, vacuum brake fittings; carriage body metallic and rubber fittings, crucibles, M. S. cotters and slip pins.

(13) Miscellaneous engineering and hardware stores, rubber goods including tyres and tubes, glass sheets, plates, mirrors, etc., glassware, enamelware (including road signs), charpoys, iron piping, oil lamps and lampware, lanterns and chimneys, crockery, cutlery, locks, safes, chests, cooking ranges, buttons, badges, clocks, timepieces and watches, buckets, bicycles, steel furniture, firebricks and fire clay, handcuffs, enamel sign boards, scales and weights and Posts and Telegraphs requirements, abrasive materials, packing and jointing materials, laboratory equipment, photographic materials, timber brushes and sanitary ware, etc.

(14) Cotton materials.

(15) Woollen materials.

(16) Garments and all made up articles of cotton and wool.

(17) Jute, hemp, flax and miscellaneous textiles including cotton waste.

(18) Leather goods.

Each separate indent should show items of a like description grouped together.

8. Indents for the purchase of plant and machinery should provide the fullest information possible and particular care should be taken to see that all peculiar local or special conditions, which might involve departures from normal standards, are mentioned.

9. Indents for spare parts should be compiled from makers' spare parts catalogues where available and care should be taken to quote the correct symbol, number and nomenclature, or code word applicable to the particular type of plant. The maker's number of the machine should also be stated. Failing this, the date and source of original supply should be given. In dealing with demands of this kind drawings are frequently essential.

10. Sufficient time should be allowed to the department for arranging the purchase of stores. Additional expenditure is frequently involved in arranging purchases at short notice.

A specific date should be stated in the indents by which the stores are required, and expressions such as 'immediately', 'as early as possible', or 'urgent' should be avoided. These expressions are constantly used, but they defeat their own object by making it impossible for the Indian Stores Department to differentiate between the degree of urgency of the various indents.

Indenting officers are also requested to spread the demands made on the Indian Stores Department evenly over the whole year as far as possible. The concentration of a large number of orders towards the close of the year not only tends to entail extra expenditure and inconvenience but makes for difficulties in the efficient disposal of the business connected with the purchase and inspection of stores.

11. Indentors should clearly state whether the goods are to be booked by goods or passenger train, whether at 'Owners" or at ' Railway' Risk and whether they are to be insured on rail.

12. It is desirable that wherever possible the Stores Department should be made aware of the approximate amount which the indentor expects to pay for the stores indented for. To this end against each item the last price paid should be entered in the 'estimated cost' column in the indent form. The estimated cost of freight and the Indian Stores Department fees should be added to the total. If information as to the latest price paid is not available a rough estimate should be given.

13. In the case of authorities with whom adjustments are made through the exchange account the appropriate certificate of availability of funds on page 4 of the indent form should be completed on all indents, and in the case of others the treasury receipt or bank deposit receipt must accompany or follow the indents, *vide* paragraph 18.

14. *Disposal of indents.*—The Indian Stores Department holds no stocks of stores of any kind. On receipt of an indent supply is arranged either by placing a separate order for the stores demanded or by combining the demand with others for compliance under a general contract, or, where convenient, under a 'running' or 'rate' contract. Copies of all orders are endorsed to indenting officers and consignees (if other than indenting officers).

15. In the event of the quotation which it is proposed to accept being considerably higher than the amount estimated by the indentor, a reference is made to him before the order is actually placed. In the absence of any special instructions on this point, the practice is to refer to the indentor if his estimate of the total cost of the stores demanded in any one indent is likely to be exceeded by 10 per cent. or Rs. 10,000, excepting when the total cost is not more than Rs. 1,000 in which case no reference to the indentor is made.

16. A list of items for which Rate and Running contracts were entered into during the year 1936-37, is given in Appendix IX. A list of the contracts in force, or copies of those in which an intending indentor may be interested, will be furnished on application. Arrangements can be made to enable Government officers, intending to avail themselves of the facilities, to requisition against such contracts direct from firms.

17. *Adjustment of accounts.*—Debits for the cost of stores purchased through the Indian Stores Department by Government officers and for the departmental fees for purchase (and inspection) levied by the Indian Stores Department are raised by the Audit Officer, Indian Stores Department, against the Accounts Officer of the consignee in the account of the month in which the suppliers' bills are paid, and exchange accounts showing all such transactions are sent by the Audit Officer, Indian Stores Department, to the accounts officer concerned, in the beginning of the second month after that to which the transactions pertain. Advance intimations of payments are sent to the consignees by the Audit Officer, Indian Stores Department, after a week of the date of payment, to keep the former informed of their liabilities and expenditure, in respect of bills paid direct on certification by Inspectorates or in cases in which amounts passed by consignees are altered in audit, or when payment is made in a financial year subsequent to that in which the bill is passed by the consignee.

18. In the case of authorities against whom book debits cannot be raised, *e.g.*, *quasi*-public bodies and Indian States, the indenting officers have the option either—

(*a*) of placing a sum equivalent to the estimated cost of the stores, *plus* the departmental fees payable for the services of the Indian Stores Department, to the credit of the Audit Officer, Indian Stores Department, in a Government treasury, forwarding the treasury receipt with the indent; or

(*b*) of depositing in a branch of the Imperial Bank of India in the name of the Audit Officer, Indian Stores Department, a sum of money sufficient to cover the estimated cost of the stores, *plus* departmental fees, with instructions to the bank that the sum should be strictly reserved for the purpose of meeting demands from the Audit Officer, Indian Stores Department, which should be complied with by the transfer of the amount to the Government account. The deposit receipt granted by the Bank should be forwarded with the indent.

The latter alternative has been introduced to avoid large sums of money being locked up without interest.

19. *Inspection, Testing and Chemical Analyses.*—The inspection and testing staff of the Indian Stores Department is located at places noted below :—

Postal Address.	Telegraphic Address.
The Controller of Inspection, Calcutta Circle, Indian Stores Department, 6, Esplanade East, Calcutta ..	Storespect, Calcutta.
The Controller of Inspection, Bombay Circle, Indian Stores Department, Hararwala Building, Wittet Road, Ballard Estate, Bombay	Storespect, Bombay.
The Assistant Controller of Inspection, Karachi Circle, Indian Stores Department, P. B. No. 332, Sadar, Karachi	Storespect, Karachi.
The Assistant Controller of Inspection, Upper India Circle, Indian Stores Department, 28-A, Empress Road, Lahore	Storespect, Lahore.
The Inspector-in-Charge, Cawnpore Inspection Branch, Indian Stores Department, 254, Nawabganj, Cawnpore	Storespect, Cawnpore.
The Inspector-in-Charge, Madras Branch, Indian Stores Department, Old High Court Buildings, Madras ..	Storespect, Madras.
The Metallurgical Inspector, Indian Stores Department, Burma Mines, Tatanagar	Metalspect, Tatanagar.
The Superintendent, Government Test House, 13, Judge's Court Road, Alipore, Calcutta	Testhouse, Calcutta.

20. These organizations undertake the analyses, tests and investigations of chemicals and other stores, and inspection of material purchased by the Indian Stores Department or by any other purchasing authorities. Where necessary, inspection in the country of origin is also arranged through the Director General, India Store Department, London. No additional charges are levied by the Department for the cost of such inspection.

21. Requests for inspection of purchases not made through the Indian Stores Department should be addressed to the nearest Inspectorate, or to the Chief Controller of Stores Indian Stores Department, Inspection Section, on form I. S. D.-40, copies of which can be obtained from him or any Inspectorate, free of charge. Requests for tests or analyses should be addressed to the Superintendent, Government Test House, Alipore, Calcutta, or the Metallurgical Inspector, Tatanagar, as the case may be.

22. *Complaints.*—In the event of serious complaints in regard to quality or price of stores, or delay in suplly, full details should be furnished to the Chief Controller of Stores, Indian Stores Department, when they will be carefully investigated. Minor complaints should, however, be referred to the supplying firms direct, and, if necessary, a copy of the complaint endorsed to the inspecting officer concerned in cases where the stores have been inspected by the Indian Stores Department. Complaints regarding adjustment of accounts should be addressed to the Audit Officer, Indian Stores Department, New Delhi. If a matter is not satisfactorily settled, it should be referred to the Chief Controller of Stores.

23. Before making complaints regarding delay in supply, indentors are requested to take into consideration the time required for inspection and for transit from place of supply to destination. Complaints are not uncommon in regard to which this consideration has been entirely overlooked. Similarly before complaining of delay in raising debits, indentors are asked to ensure that the bills have not been delayed by the consignees, it having been found that this is a frequent cause of delay in such cases.

24. All complaints should be made as promptly as possible, as delay may prejudice the chances of obtaining redress, particularly if arbitration or legal proceedings are involved.

25. *Rejections and disposal of rejected stores.*—In the case of orders placed by the Indian Stores Department, this Department is the contracting party, and the final rejection of stores lies within its competence alone. Therefore, it is not possible for an indenting officer or consignee to reject stores which have been accepted by the Department. In cases in which an indenting officer considers that grounds for the rejection of such stores exist a full report shold be forwarded immediately to the Indian Stores Department Inspectorate concerned, and the goods complained of should be carefully stored to avoid loss or deterioration, pending investigation by the Department and issue of final instructions as to their disposal. Should it be decided that the stores should be rejected, intimation to this effect will be furnished immediately to the contractor by the Indian Stores Department, and he will be informed that the stores lie at his risk from the date of such rejection and that if not removed within a fortnight of rejection the purchaser will have the right to dispose of the stores as he thinks fit, at the contractor's risk and on his account.

If supplies against an order not exceeding Rs. 5,000 in value are received in a damaged or defective condition and the consignee proposes to accept them at a reduced price to which the supplier is agreeable, he may do so without reference to the Purchase Officer. An intimation of the reduction made should, however, be given to the Purchase and Inspecting Officers concerned for information and record in their books.

If the value of the order exceeds Rs. 5,000, the final decision to assess the reduced price for defective or damaged stores will rest with the Purchase Officer and all such cases should be referred to that officer.

All cases in which the supplier and the consignee are unable to come to an agreement will, of course, be referred to the Purchase Officer, irrespective of the value of the order.

26. Cases occasionally occur in which stores are despatched to their destination after merely a visual examination at the contractor's premises, works or godowns, on the understanding that their final acceptance or rejection shall depend on the results of the

tests carried out at the Government Test House. In such cases if the stores are rejected, the contractor will be informed at once, and the stores will lie at the consignee's depôt at the contractors risk from the date of such rejection, and, if not removed within a fortnight of rejection, the consignee will have the right to dispose of them as he thinks fit, at the contractor's risk and on his account.

27. Similarly, stores, which are rejected by the inspecting officer appointed by the Indian Stores Department, after delivery under the terms of the contract for inspection at the consignee's depot, will lie at the consignee's depot at the contractor's risk from the date of such rejection, and if not removed within a fortnight of rejection, the consignee will have the right to dispose of them as he thinks fit, at the contractor's risk and on his account.

28. Stores rejected in the circumstances indicated above and not removed by the contractor within the period allowed for such removal should be disposed of by the consignee, either by return to the contractor or in such other manner as he considers most suited to the circumstances in each case.

29. The expiry of the period allowed for removal brings into operation the consignee's (Bailee's) right to sell or otherwise dispose of the goods. His liabilities for negligence will, however, continue so long as the goods are in his custody. He cannot, for instance, leave the stores unprotected or in the open exposed to sun and rain, and then disclaim responsibility for loss or damage arising out of such causes. He is expected to exercise such reasonable care of the goods as under the circumstances he would have exercised of his own.

30. It should be understood that the foregoing instructions apply only to stores which are purchased and inspected by the Indian Stores Department.

31. *Departmental fees.*—Under the orders of the Government of India the Indian Stores Department levies a fee of 1 per cent. for purchase and 1 per cent. for inspection of the total cost of orders placed on behalf of all authorities in India except the non-commercial civil departments of the Central Government.

The fee of 1 per cent. for inspection includes all sampling and testing before the contract is concluded and also, where necessary, sampling and testing during the currency of the contract. These charges are adjusted by the Audit Officer, Indian Stores Department, with the cost of stores.

32. The fees for analyses and tests of chemicals and other stores, and for inspection of purchase made by other purchasing authorities, carried out at the Government Test House, the Metallurgical Inspectorate or any other organization under the Inspection Branch of the Department, are given in detail in the schedules prescribed by the Government of India, Department of Industries and Labour, copies of which can be obtained from the Manager of Publications, Civil Lines, Delhi. Bills for these charges are prepared by the heads of inspection or testing organizations and forwarded to the parties concerned for acceptance and adjustment through exchange account in the case of authorities having exchange accounts and payment in cash, either direct or into the nearest Government treasury, in the case of other authorities and private concerns.

33. No charge is made for services rendered by any branch of the Department (including the Government Test House and Metallurgical Inspectorate) to non-commercial Civil departments of the Central Government.

APPENDIX II.

Organisation of the Indian Stores Department as it stood on the 31st March 1937. (Vide paragraph 10 of the Report.)

CHIEF CONTROLLER OF STORES.

PURCHASE.

- **TEXTILES AND LEATHER.**
  - Deputy Director of Purchase.
  - Assistant Director of Purchase.
- **ENGINEERING.**
  - Deputy Director of Purchase.
  - Assistant Director of Purchase.
  - 2 Assistant Controllers of Purchase.
- **HARDWARE AND MISCELLANEOUS.**
  - Deputy Director of Purchase.
  - Assistant Director of Purchase.
  - Assistant Controller of Purchase.

PROVINCIAL.

- **CALCUTTA.**
  - Controller of Purchase.
  - 2 Assistant Controllers of Purchase.
    - Head Clerk.
    - Stenographer
    - 32 Clerks.
    - 2 Duftries.
    - 13 Peons.
    - Chowkidar.
- **BOMBAY.**
  - Controller of Purchase.
    - Head Clerk.
    - Stenographer.
    - 19 Clerks.
    - Duftries.
    - 8 Peons.
- **KARACHI.**
  - Controller of Purchase.
    - Head Clerk. Personal Stenographer.
    - 16 Clerks.
    - Duftry.
    - 7 Peons.
    - Chowkidar.

ADMINISTRATION AND INTELLIGENCE.

- Deputy Director of Administration and Intelligence.
- Assistant Director of Administration and Intelligence.
  - 6 Superintendents.
  - 153 Assistants and Clerks.
  - 3 Stenographers.
  - 4 Record sorters.
  - 14 Daftries.
  - Jemadar.
  - 2 Daffadars.
  - 30 Peons.
  - 3 Farashes.

INSPECTION.

- Deputy Director of Inspection.
- Assistant Director of Inspection.
- 2 Assistant Engineers (Inspection).
- 1 Examiner.
- Head Draftsman.
- 4 Draftsmen.
- Photo-typer.

PROVINCIAL.

- **CALCUTTA INSPECTION CIRCLE.**
  - Controller of Inspection.
  - 2 Assistant Controllers of Inspection.
  - 16 Assistant Engineers (Inspection) and Inspectors of Stores.
  - Assistant to the Controller of Inspection.
    - 20 Examiners.
      - Head Clerk.
      - Stenographer.
      - 48 Clerks.
      - 2 Checkers.
      - [illegible]
- **GOVERNMENT TEST HOUSE, ALIPORE.**
  - Superintendent, Government Test House.
    - Physicist. Assistant Engineer.
      - 20 Physical Assistants.
      - Foreman.
    - Head Clerk.
    - Stenographer.
    - Accountant.
    - 11 Clerks.
    - 2 Storekeepers.
    - 3 Laboratory operators.
    - 6 Mistries.
    - [illegible]
    - Chemist. Assistant Chemist.
      - 13 Chemical Assistants.
    - Research Branch.
      - Research Officer. Assistant Research Officer.
        - 8 Chemical Assistants.
        - 8 Physical Assistants.
- **METALLURGICAL INSPECTORATE.**
  - Metallurgical Inspector.
  - Officer on Special Duty.
    - 2 Assistant Metallurgical Inspectors.
      - Physical.
        - 4 Assistant Engineers (Inspection).
          - 7 Examiners.
      - Head Clerk.
      - Accountant.
      - Stenographer.
      - 23 Clerks.
      - 2 Mistries.
      - Head Laboratory Bearer.
      - Laboratory Bearers.
      - Chemical
        - 3 Chemical Assistants.
- **MADRAS INSPECTION BRANCH.**
  - Inspector-in-charge.
    - 4 Clerks.
    - Duftry.
    - 2 Peons.
- **BOMBAY INSPECTION CIRCLE.**
  - Controller of Inspection.
    - 6 Assistant Engineers (Inspection) and Inspector of Stores.
    - Personal Assistant to the Controller of Inspection.
      - 8 Examiners.
        - Head Clerk.
        - Stenographer.
        - 21 Clerks.
- **UPPER INDIA INSPECTION CIRCLE.**
  - Assistant Controller of Inspection.
    - Assistant Engineer (Inspection).
      - 2 Examiners.
        - Head Clerk.
        - Stenographer.
        - 7 Clerks.
        - Duftry.
        - 5 Peons.
- **CAWNPORE INSPECTION BRANCH.**
  - Inspector-in-charge.
    - 3 Examiners.
      - 6 Clerks.
      - Duftry.
      - 4 Peons.
      - Chowkidar.
- **KARACHI INSPECTION CIRCLE.**
  - Assistant Controller of Inspection.
    - 4 Examiners.
      - Head Clerk.
      - Stenographer.
      - 12 Clerks.
      - Duftry.
      - 7 Peons.
      - Mali.

INDUSTRIAL RESEARCH BUREAU.

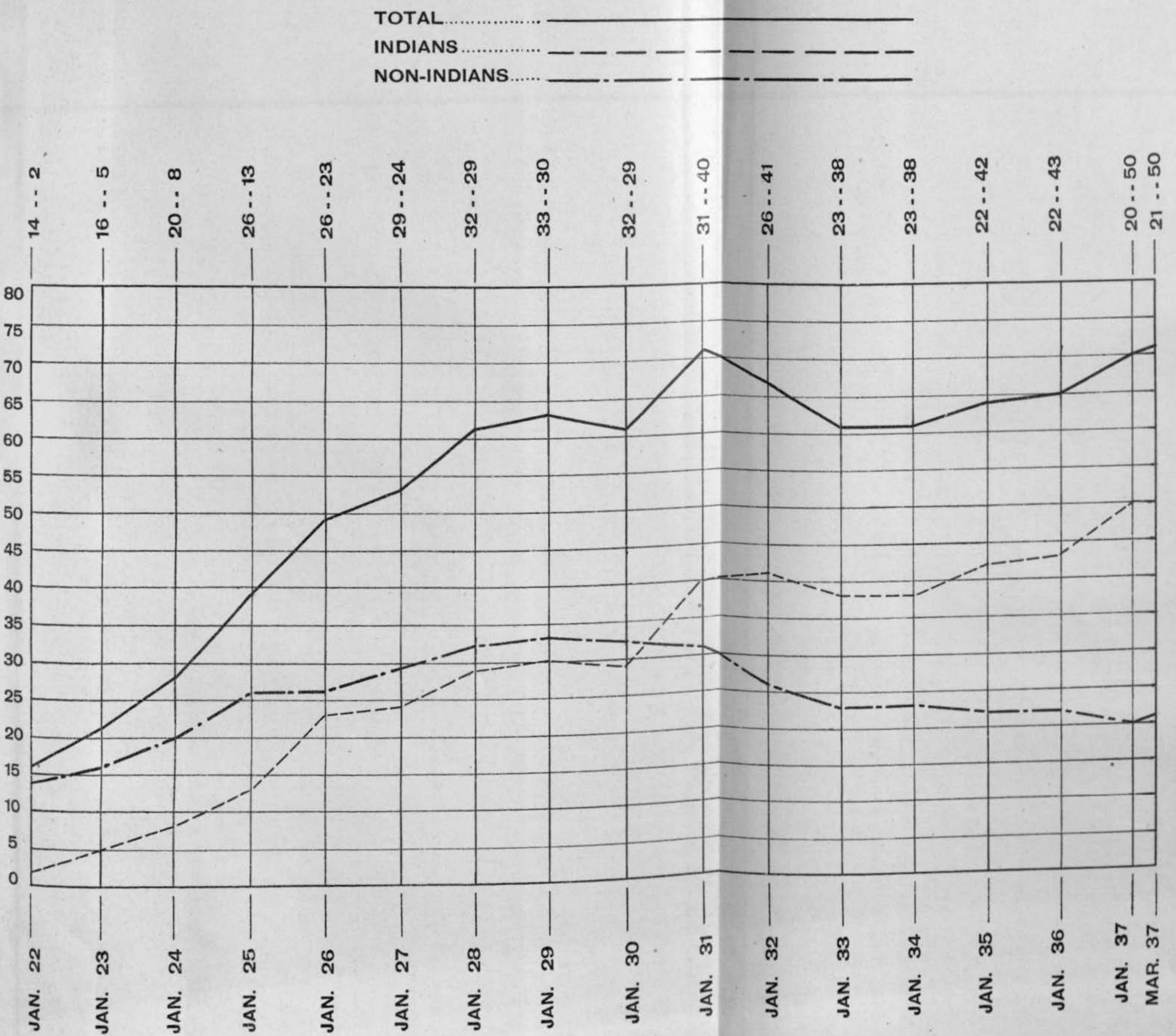
- Director.
- Assistant Director.
  - Superintendent.
  - 2 Technical Assistants.
  - Librarian.
  - 13 Assistants and Clerks.
  - 2 Stenographers.
  - Draftsman.
  - Tracer.
  - Record Sorter.
  - 2 Duftries.
  - Daffadar.
  - 6 Peons
  - Farash.

APPENDIX III.

INDIAN STORES DEPARTMENT.

GAZETTED STAFF UP TO 31st MARCH 1937.

(Vide paragraph 12 of the report).



APPENDIX IV.

Statement showing details of the communal composition of the staff employed in the Indian Stores Department.

(*Vide* paragraph 15 of the Report.)

Particulars.	Recruitment during 1936.									Total on 1st January 1937.									Total on 1st January 1936.								
	Hindus.	Muhammadans.	Sikhs.	Indian Christians.	Anglo-Indians.	Other Indian communities.	Total Indians.	Europeans.	Total.	Hindus.	Muhammadans.	Sikhs.	Indian Christians.	Anglo-Indians.	Other Indian communities.	Total Indians.	Europeans.	Total.	Hindus.	Muhammadans.	Sikhs.	Indian Christians.	Anglo-Indians.	Other Indian communities.	Total Indians.	Europeans.	Total.
Gazetted Staff.																											
Chief Controller of Stores	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	1	1
Administration and Intelligence Branch.	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	2	..	2	1	..	..	1	..	..	2	..	2
Purchase Branch	1	..	..	..	..	..	1	..	1	9	1	..	1	..	..	11	3	14	7	1	..	1	..	..	9	3	12
Inspection Branch	3	2	..	..	..	..	5	1	6	25	5	1	1	2	1	35	14	49	23	3	1	1	2	1	31	16	47
Industrial Research Bureau ..	2	..	..	..	..	..	2	..	2	2	..	..	..	..	..	2	2	4	1	..	..	..	..	..	1	2	3
Total ..	6	2	..	..	..	..	8	1	9	37	6	1	3	2	1	50	20	70	32	4	1	3	2	1	43	22	65
Subordinate Technical Staff.																											
(1) Examiner of Stores	1	2	1	1	..	..	5	..	5	31	6	4	2	1	..	44	..	44	31	5	3	1	1	..	41	..	41
(2) Chemical Assistants and Physical Assistants.	7	2	..	..	..	..	9	..	9	41	5	..	..	..	..	46	..	46	35	4	..	..	..	..	39	..	39
(3) Drawing Office Staff	..	1	..	..	..	..	1	..	1	6	4	1	..	..	..	11	..	11	6	3	1	..	..	..	10	..	10
(4) Other technical staff (Technical Assistant, Laboratory fitters, etc.)	2	1	..	..	..	..	3	..	3	15	3	..	1	..	1	20	..	20	14	2	..	1	..	1	18	..	18
Total ..	10	6	1	1	..	..	18	..	18	93	18	5	3	1	1	121	..	121	86	14	4	2	1	1	108	..	108
Clerical Staff.																											
Headquarters	8	6	2	..	..	..	16	..	16	123	33	12	2	3	..	173	..	173	119	32	10	1	3	..	165	..	165
Subordinate Offices	8	4	..	3	..	..	15	..	15	154	41	5	15	1	1	217	..	217	149	39	6	15	1	1	211	..	211
Total ..	16	10	2	3	..	..	31	..	31	277	74	17	17	4	1	390	..	390	268	71	16	16	4	1	376	..	376
GRAND TOTAL ..	32	18	3	4	..	..	57	1	58	407	98	23	23	7	3	561	20	581	386	89	21	21	7	3	527	22	549

APPENDIX V.

Value of stores purchased. (*Vide paragraphs 2 and 16 of the Report.*)

——	Year.	Calcutta.	Bombay.	Karachi.	Total Provincial Circles.	Headquarters.	Grand Total.
Textiles	1933-34	6,19,356	2,09,971	17,796	8,47,123	77,08,238	85,55,361
	1934-35	6,92,390	2,34,489	24,326	9,51,205	86,34,152	95,85,357
	1935-36	6,38,379	2,21,537	22,178	8,82,094	90,40,150	99,22,244
	1936-37	5,46,802	2,29,793	50,882	8,27,477	1,06,84,652	1,15,12,129
Engineering and Miscellaneous stores	1933-34	24,13,675	10,45,749	8,68,968	43,28,392	2,31,10,382	2,74,38,774
	1934-35	43,14,777	12,63,019	10,81,268	66,59,064	3,13,91,830	3,80,50,894
	1935-36	44,76,595	14,37,468	16,25,100	75,39,163	3,84,43,459	4,59,82,622
	1936-37	38,30,912	14,07,417	11,59,995	63,98,324	4,69,96,081	5,33,94,405
Total	1933-34	30,33,031	12,55,720	8,86,764	51,75,515	3,08,18,620	3,59,94,135
	1934-35	50,07,167	14,97,508	11,05,594	76,10,269	4,00,25,982	4,76,36,251
	1935-36	51,14,974	16,59,005	16,47,278	84,21,257	4,74,83,609	5,59,04,866
	1936-37	43,77,714	16,37,210	12,10,877	72,25,801	5,76,80,733	6,49,06,534

APPENDIX VI.

Statement showing the value of stores purchased on behalf of various authorities utilizing the services of the Indian Stores Department during the year 1936-37 and three preceding years. (Vide *paragraphs 2 and 16 of the Report.*)

Serial No.	Organization.	Purchases made during 1936-37.			Total for the year		
		Textiles and Leather.	Engineering, hardware and miscellaneous stores.	Total for 1936-37.	1935-36.	1934-35.	1933-34.
	Central—Defence.						
1	Quartermaster-General in India (including Mechanical Transport).	..	7,68,812	7,68,812	7,53,155	5,33,514	5,14,754
2	Master General of the Ordnance ..	64,16,972	68,749	64,85,721	47,24,036	51,05,284	46,47,432
3	Military Engineer Services	46,453	38,20,499	38,66,952	42,70,216	22,86,298	26,61,600
4	Royal Indian Navy ..	93,237	3,76,013	4,69,250	3,92,913	4,37,662	3,78,091
5	Royal Air Force ..	69,744	33,494	1,03,238	72,578	~~3,54,496~~ 35,496	36,732
6	Other Military Authorities	2,33,783	23,615	2,57,398	1,53,867	2,08,451	9,405
	Total—Central Defence	68,60,189	50,91,182	1,19,51,371	1,03,66,765	86,06,705	82,48,014
	Central—Civil (including minor Administrations).						
7	Government of India Secretariat and attached offices ..	51,864	73,821	1,25,685	1,01,686	68,757	31,290
8	Superintendent, Viceregal Estates ..	1,509	32,879	34,388	26,940	19,580	11,394
	Authorities subordinate to the Department of Industries and Labour.						
9	Indian Posts and Telegraphs Department	3,53,427	17,99,772	21,53,199	46,99,180	29,15,106	13,35,985
10	Printing and Stationery Department (India)	53,997	12,059	66,056	72,382	88,054	70,572
11	Central Public Works Department ..	33,755	11,55,891	11,89,646	4,00,584	9,95,748	3,73,219
12	Civil Aviation Department	..	1,58,971	1,58,971	19,70,350	72,643	35,920
13	Other Authorities ..	3,177	10,94,829	10,98,006,	48,483	40,505	28,579
	Total—Authorities subordinate to the Department of Industries and Labour ..	4,44,356	42,21,522	46,65,878	71,90,979	41,12,056	18,44,275

Serial No.	Organization.	Purchases made during 1936-37. Textiles and Leather.	Engineering, hardware and miscellaneous stores.	Total for 1936-37.	Total for the year 1935-36.	1934-35.	1933-34.
14	Authorities Subordinate to the Commerce Department..	6,312	3,42,577	3,48,889	1,77,164	2,91,176	1,33,926.
	Authorities subordinate to the Finance Department.						
15	Northern India Salt Revenue ..	9,856	2,51,759	2,61,615	1,55,136	1,84,527	1,63,909
16	Other authorities ..	80,481	1,37,003	2,17,484	1,27,986	1,13,678	77,561
	Total—Authorities subordinate to the Finance Department..	90,337	3,88,762	4,79,099	2,83,122	2,98,205	2,41,470
	Authorities subordinates to the Department of Education, Health and Lands.						
17	Survey of India ..	41,600	16,390	57,990	50,893	43,334	23,564
18	Director General, Indian Medical Service ..	..	2,913	2,913	1,105	914	1,76,572
19	Other authorities ..	9,343	1,64,334	1,73,677	1,22,758	1,51,368	49,990
	Total—Authorities subordinate to the Department of Education, Health and Lands ..	50,943	1,83,637	2,34,580	1,74,756	1,95,616	2,50,126
20	Authorities subordinate to the Foreign and Political Department ..	47,753	75,192	1,22,945	1,50,620	2,03,710	1,69,995
	Minor Local Administrations.						
21	Baluchistan Administration ..	59,887	1,50,903	2,10,790	4,42,431	73,008	69,371
22	Coorg Administration	14,447	732	15,179	16,475	3,432	10,170
23	Ajmer-Merwara Administration ..	18,074	421	18,495	18,459	31,642	19,438
24	Delhi Administration	15,604	50,605	66,209	1,68,894	19,499	20,474
25	Andaman Commission	33,987	3,62,206	3,96,193	3,23,102	3,80,209	1,65,438
	Total—Minor Local Administrations ..	1,41,999	5,64,867	7,06,866	9,69,361	5,07,790	2,84,891
	Total—Central—Civil	8,35,073	58,83,257	67,18,330	90,74,628	56,96,890	29,67,467

Serial No.	Organization.	Purchases made during 1936-37. Textiles and Leather.	Engineering, hardware and miscellaneous stores.	Total for 1936-37.	Total for the year 1935-36.	1934-35.	1933-34.
	Railways—State-managed.						
26	North Western Railway	9,86,663	98,70,642	1,08,57,305	89,61,863	64,47,103	60,43,536
27	Eastern Bengal Railway	2,24,246	43,73,862	45,98,108	39,48,693	48,09,919	21,62,710
28	East Indian Railway	7,64,077	1,04,64,778	1,12,28,855	92,73,474	88,58,346	49,84,247
29	Great Indian Peninsula Railway ..	3,80,479	56,06,742	59,87,221	51,97,571	48,28,803	35,27,017
30	Burma Railways ..	89,287	1,83,640	2,72,927	4,23,957	4,02,231	3,73,836
31	Central Publicity Bureau (Indian State Railways) ..	19	5,024	5,043	5,200	3,759	1,551
32	Railway Clearing Accounts Office ..	..	251	251	66	431	..
33	Chief Mining Engineer, Railway Board ..	1,220	95,978	97,198	..	..	..
	Total—State-managed Railways ..	24,45,991	3,06,00,917	3,30,46,908	2,78,10,824	2,53,50,592	1,70,92,917
	Railways—Company-managed.						
34	Assam-Bengal Railway	1,910	90,492	92,402	91,412	87,253	61,359
35	Bombay, Baroda and Central India Railway	..	2,96,903	2,96,903	..	..	2,866
36	South Indian Railway	41,705	2,32,115	2,73,820	3,05,984	2,58,909	1,64,418
37	Bengal Nagpur Railway	132	17,69,828	17,69,960	42,613	42,637	31,233
38	Madras and Southern Mahratta Railway..	1,591	3,96,874	3,98,465	2,36,197	2,26,537	1,20,307
39	Bengal and North-Western Railway ..	..	..	..	..	..	894
40	Bankura Damodar Railway	..	..	..	..	9	..
41	Darjeeling Himalayan Railway	..	1,627	1,627	..	..	..
42	Rohilkund and Kumaon Railway ..	..	275	275	..	..	..
	Total—Company-managed Railways ..	45,338	27,88,114	28,33,452	6,76,206	6,15,345	3,81,077

Serial No.	Organization.	Purchases made during 1936-37. Textiles and Leather.	Engineering, hardware and miscellaneous stores.	Total for 1936-37.	Total for the year 1935-36.	1934-35.	1933-34.
	Railways—managed by Indian States.						
43	Jodhpur Railway ..	734	2,07,693	2,08,427	4,13,398	4,68,039	53,048
44	H. E. H. the Nizam's State Railway ..	39,277	34,240	73,517	1,14,296	63,860	78,666
45	Baroda State Railway	..	—36	—36	6,720	..	..
46	Mysore Railways ..	..	252	252	..	..	..
	Total—Railways managed by Indian States	40,011	2,42,149	2,82,160	5,34,414	5,31,899	1,31,714
	Grand Total Railways	25,31,340	3,36,31,180	3,61,62,520	2,90,21,444	2,64,97,836	1,76,05,708
	PROVINCIAL.						
	Madras.						
47	Public Works Department	1,158	8,78,487	8,79,645	11,55,091	4,03,851	3,05,911
48	Police Department ..	82,535	9,574	92,109	74,982	79,733	43,622
49	Jail Department ..	54,687	22,306	76,993	51,175	52,064	35,675
50	Other Departments ..	30,263	1,18,035	1,48,298	76,608	84,470	74,147
	Total—Madras ..	1,68,643	10,28,402	11,97,045	13,57,856	6,20,118	4,59,355
	Bombay.						
51	Public Works Department	625	3,27,311	3,27,936	8,17,507	6,98,686	6,13,451
52	Police Department ..	2,00,654	6,316	2,06,970	1,83,285	1,93,069	1,62,329
53	Jail Department ..	21,076	2,598	23,674	36,538	19,020	30,829
54	Other Departments ..	17,060	24,155	41,215	47,589	55,126	47,902
	Total—Bombay	2,39,415	3,60,380	5,99,795	10,84,919	9,65,901	8,54,511
	Bengal.						
55	Public Works Department	..	1,64,045	1,64,045	83,462	50,228	40,209
56	Police Department ..	..	1,805	1,805	16,305	2,660	4,727
57	Jail Department ..	62,079	595	62,674	93,279	73,010	1,22,062
58	Other Departments ..	74,135	45,236	1,19,371	50,374	35,857	43,060
	Total—Bengal	1,36,214	2,11,681	3,47,895	2,43,420	1,61,755	2,10,058

Serial No.	Organization.	Purchases made during 1936-37.			Total for the year		
		Textiles and Leather.	Engineering, hardware and miscellaneous stores.	Total for 1936-37.	1935-36.	1934-35.	1933-34.
	United Provinces.						
59	Public Works Department	..	69,053	69,053	45,206	1,19,348	91,076
60	Other Departments ..	..	6,537	6,537	17,207	16,455	26,061
	Total United Provinces ..	..	75,590	75,590	62,413	1,35,803	1,17,137
	Punjab.						
61	Public Works Department	4,542	21,57,027	21,61,569	18,50,112	20,30,372	30,87,804
62	Other Departments ..	2,29,794	1,54,590	3,84,384	3,59,684	2,50,186	2,46,012
	Total—Punjab ..	2,34,336	23,11,617	25,45,953	22,09,796	22,80,558	33,33,816
	Burma.						
63	Public Works Department	..	2,264	2,264	6,253	12,957	8,313
64	Police Department ..	1,21,036	12,241	1,33,277	1,63,886	1,09,673	1,44,782
65	Jail Department ..	3,619	2,461	6,080	8,241	8,839	90,018
66	Other Departments ..	..	1,805	1,805	443	27	394
	Total—Burma ..	1,24,655	18,771	1,43,426	1,78,823	1,26,496	2,43,507
	Bihar.						
67	Public Works Department	194	2,15,986	2,16,180	2,61,359	1,12, 240	1,15,344
68	Other Departments ..	15,361	19,941	35,302	32,360	65,576	84,243
	Total—Bihar ..	15,555	2,35,927	2,51,482	2,93,719	1,77,816	1,99,587
	Central Provinces.						
69	Public Works Department .. .	80	5,28,217	5.28,297	2,61,678	1,67,944	72,357
70	Other Departments ..	9.049	33,988	43.037	34,338	15,616	12,486
	Total Central Provinces	9,129	5,62,205	5,71,334	2,96,016	1,83,560	84,843

Serial No.	Organization.	Purchases made during 1936-37. Textiles and Leather.	Engineering, hardware and miscellaneous stores.	Total for 1936-37.	Total for the year 1935-36.	1934-35.	1933-34.
	Assam.						
71	Public Works Department	2,651	5,012	7,663	6,283	3,956	22,152
72	Police Department ..	93,578	2,238	95,816	94,358	83,479	74,758
73	Jail Department ..	5,632	752	6,384	17,990	11,733	17,807
74	Other Departments ..	2,652	4,184	6,836	7,247	4,632	4,198
	Total—Assam ..	1,04,513	12,186	1,16,699	1,25,878	1,03,800	1,18,915
75	North-West Frontier Province	1,43,394	4,70,907	6,14,301	4,98,650	4,61,975	3,17,478
	Orissa.						
76	Public Works Department	19	44,765	44,784	*	*	*
77	Other Departments ..	318	4,116	4,434	..	..	..
	Total—Orissa ..	337	48,881	49,218	..	..	..
	Sind.						
78	Public Works Department	8,889	4,35,800	4,44,689	†	†	†
79	Other Departments ..	69,274	14,659	83,933	..	..	..
	Total—Sind ..	78,163	4,50,459	5,28,622	..	..	..
	Total-Provincial ..	12,54,354	57,87,006	70,41,360	63,51,490	52,17,782	59,39,207
	Indian States.						
80	Jaipur	..	2,85,559	2,85,559	64,549	1,99,809	59,658
81	Mysore	..	17	17	..	..	388
82	Bahawalpore ..	98	70,308	70,406	1,10,780	1,39,646	1,13,527
83	Hyderabad ..	..	3,516	3,516	3,222	2,913	3,8 3

* Included in Bihar.

† Included in Bombay.

Serial No.	Organization.	Purchases made during 1936-37. Textiles and Leather.	Engineering, hardware and miscellaneous stores.	Total for 1936-37.	Total for the year 1935-36.	1934-35.	1933-34.
	Indian States—contd.						
84	Jamkhandi	..	..	..	..	164	258
85	Indore	..	..	..	2,571	7,723	16,044
86	Gwalior	..	6,473	6,473	6,132	3,357	4,918
87	Patiala	..	25,193	25,193	59,223	159	..
88	Jodhpur	..	66,115	66,115	79,978	46,045	37,459
89	Khairpur	177	42,004	42,181	31,997	7,023	38,227
90	Jind	..	..	..	..	..	12
91	Sikkim	84	679	763	..	..	110
92	Barwani	..	..	..	..	33	..
93	Junagadh	..	..	..	..	6,598	..
94	Bharatpur	328	..	328	..	533	..
95	Nabha	..	..	..	..	84	..
96	Gangpur	..	..	..	..	143	..
97	Sundergarh.. ..	..	..	..	..	90	..
98	Alwar	..	372	372	..	997	..
99	Bahawalnagar ..	..	249	249	674	..	..
100	Chatarpur	1,243	..	1,243	2,634	..	..
101	Darbhanga ..	..	..	..	351	..	..
102	Baroda	..	..	..	47	..	..
103	Cooch Behar ..	..	2,604	2,604	1,874	..	..
104	Mudhol	..	..	..	260	..	..
105	Tonk	..	355	355	..	..	..
106	Mandi	..	15	15	..	..	..
107	Ramdurg	..	124	124	..	..	..
108	Bundi	..	9,530	9,530	..	..	..
109	Cochin	..	425	425	..	..	..
110	Bhopal	..	4,654	4,654	..	..	..
111	Travancore ..	..	50,733	50,733	..	..	..
	Total—Indian States	1,930	5,68,925	5,70,855	3,64,292	4,35,317	2,74,414

Serial No.	Organization.	Purchases made during 1936-37. Textiles and Leather.	Engineering, hardware and miscellaneous stores.	Total for 1936-37.	Total for the year 1935-36.	1934-35.	1933-34.
	Quasi-Public Bodies.						
112	City Board, Mussoorie	..	2,01,173	2,01,173	20,322	1,11,302	31,499
113	Municipal Committee, Simla	117	25,566	25,683	15,638	17,471	6,817
114	Municipal Committee, New Delhi ..	685	9,91,177	9,91,862	2,48,485	2,78,930	1,01,112
115	Municipal Corporation, Karachi	897	15,121	16,018	40,190	3,86,038	32,134
116	Municipal Corporation, Madras	..	51,467	51,467	32,294	59,641	86,845
117	Other Municipalities and District Boards	1,498	4,11,523	4,13,021	2,85,394	1,97,342	1,76,468
118	Port Commissioners ..	..	17,926	17,926	29,580	19,602	15,723
119	Joint Water Board, Delhi	368	10,388	10,756	29,821	84,205	4,94,990
120	Other Local Bodies ..	21,202	7,02,517	7,23,719	13,998	12,466	1,949
	Total—*Quasi*-Public Bodies	24,767	24,26,858	24,51,625	7,15,722	11,66,997	9,47,537
	British and Colonial Governments.						
121	Royal Airship Base, Karachi	..	2,966	2,966	4,596	937	2,702
122	Singapore Straits Settlements ..	2,946	5	2,951	3,326	10,644	7,248
123	Ceylon Government ..	..	3,026	3,026	2,603	3,143	1,838
124	Union of South Africa	1,530	..	1,530	..	..	..
	Total—British and Colonial Governments	4,476	5,997	10,473	10,525	14,724	11,783
	Abstract.						
	Central—Defence ..	68,60,189	50,91,182	1,19,51,371	1,03,66,765	86,06,705	82,48,014
	Central—Civil ..	8,35,073	58,83,257	67,18,330	90,74,628	56,96,890	29,67,467
	Railways—State-managed	24,45,991	3,06,00,917	3,30,46,908	2,78,10,824	2,53,50,592	1,70,92,917
	Railways—Company-managed	45,338	27,88,114	28,33,452	6,76,206	6,15,345	3,81,077
	Railways—Managed by Indian States ..	40,011	2,42,149	2,82,160	5,34,414	5,31,899	1,31,714
	Total—Railways ..	25,31,340	3,36,31,180	3,61,62,520	2,90,21,444	2,64,97,836	1,76,,05,708
	Provincial Governments	12,54,354	57,87,006	70,41,360	63,51,490	52,17,782	59,39,207
	Indian States ..	1,930	5,68,925	5,70,855	3,64,292	4,35,317	2,74,414
	Quasi-Public Bodies ..	24,767	24,26,858	24,51,625	7,15,722	11,66,997	9,47,537
	British and Colonial Governments ..	4,476	5,997	10,473	10,525	14,724	11,783
	Grand total ..	1,15,12,129	5,33,94,405	6,49,06,534	5,59,04,866	4,76,36,251	3,59,94,135

APPENDIX VII.

Statement showing the value of various classes of purchases (indigenous and imported) during 1936-37 and three preceding years. (Vide *paragraphs 2, and 16 of the Report.*)

Class of stores.	1936-37. Total	1936-37. Percentage.	1935-36. Total.	1935-36. Percentage.	1934-35. Total.	1934-35. Percentage.	1933-34. Total.	1933-34. Percentage.
I.—TEXTILE AND LEATHER.								
(a) Stores purchased in the Indian market.								
(i) Cotton—								
Indigenous ..	53,63,840	98·7	46,75,035	97·5	38,23,069	97·0	39,93,164	97·0
Imported ..	71,563	1·3	1,22,528	2·5	1,19,200	3·0	1,25,069	3·0
(ii) Woollen—								
Indigenous ..	41,36,147	99·5	35,13,112	98·7	25,93,472	98·7	21,09,829	94·9
Imported ..	22,686	·5	45,368	1·3	36,187	1·3	1,14,423	5·1
(iii) Jute, hemp, etc.								
Indigenous ..	9,21,557	74·1	7,92,773	71·4	12,58,447	79·7	4,89,025	69·5
Imported ..	3,22,269	25·9	3,17,399	28·6	3,20,208	20·3	2,14,420	30·5
(iv) Leather—								
Indigenous ..	1,88,225	80·9	1,58,256	79·7	1,93,281	94·3	1,28,415	96·9
Imported ..	44,581	19·1	40,419	20·3	11,604	5·7	4,062	3·1
Total—Indigenous	1,06,09,769	95·8	91,39,176	94·6	78,68,269	94·2	67,20,433	93·6
Imported	4,61,099	4·2	5,25,714	5·4	4,87,199	5·8	4,57,974	6·4
Total stores purchased in the Indian market.	1,10,70,868	..	96,64,890	..	83,55,468	..	71,78,407	..
(b) Stores purchased from Government Departments or Depots—Indigenous.								
Cotton ..	2,439	..	17,933	..	12,940	..	1,918	..
Woollen ..	46,325	..	327	..	1,24,950	..	60,918	..
Jute, hemp, etc.	642	..	8,239	..	199	..	..	..
Leather ..	..	..	..	..	..	..	..	..
Total ..	49,406	..	26,499	..	1,38,089	..	62,836	..
(c) Stores purchased direct from outside India—Imported.								
Cotton ..	..	..	891	..	1,36,407	..	2,21,928	..
Woollen ..	3,91,855	..	1,69,792	..	6,34,244	..	9,75,874	..
Jute, hemp, etc.	..	..	60,172	..	3,21,149	..	1,16,316	..
Leather ..	..	..	..	..	..	..	..	..
Total ..	3,91,855	..	2,30,855	..	10,91,800	..	13,14,118	..
Total—Indigenous	1,06,59,175	92·6	91,65,675	92·4	80,06,358	83·5	67,83,269	79·3
Imported	8,52,954	7·4	7,56,569	7·6	15,78,999	16·5	17,72,092	20·7
Total—Textiles and Leather.	1,15,12,129	..	99,22,244	..	95,85,357	..	85,55,361	..
II—ENGINEERING AND MISCELLANEOUS STORES.								
(a) Stores purchased in the Indian market ..	5,31,82,769	..	4,59,36,832	..	3,79,17,875	..	2,73,22,970	..
(b) Stores purchased from Government Departments or Depots ..	510	..	10,982	..	7,481	..	2,682	..
(c) Stores purchased direct from outside India ..	2,11,126	..	34,808	..	1,25,538	..	1,13,122	..
Total—Engineering and Miscellaneous Stores ..	5,33,94,405	..	4,59,82,622	..	3,80,50,894	..	2,74,38,774	..
TOTAL ..	6,49,06,534	..	5,59,04,866	..	4,76,36,251	..	3,59,94,135	..

APPENDIX VIII.

Value in rupees of stores purchased in each province during the year 1936-37, and three preceding years. (Vide *paragraphs 2, 16 and 28 of the Report.*)

Class of material and province in which purchased.	1936-37.	1935-36.	1934-35.	1933-34.
	Rs.	Rs.	Rs.	Rs.
Cotton Materials.				
United Provinces	19,94,050	17,54,824	14,52,662	11,95,471
Bombay	13,94,925	13,28,664	8,69,299	8,99,438
Madras	8,79,618	7,71,755	7,79,057	9,09,873
Bengal	7,55,368	5,51,590	6,70,110	7,43,664
Indore	1,37,857	..	..	..
Punjab	1,13,610	1,38,022	28,233	42,000
Central Provinces	94,733	1,92,665	1,21,288	3,15,059
Delhi	41,678	60,043	16,656	11,055
Sind	15,253	*	*	*
N.-W. F. P.	8,311	..	..	..
Burma	..	..	2,294	..
Mysore	..	..	2,105	1,499
Hyderabad	..	..	563	174
Total—Cotton Materials ..	54,35,403	47,97,563	39,42,269	41,18,233
Woollen Materials.				
United Provinces..	16,39,819	15,90,044	7,38,403	6,89,105
Madras	9,92,669	5,57,615	4,01,012	5,19,746
Punjab	9,86,829	7,77,992	8,10,658	4,52,745
Bombay	3,01,737	5,21,886	3,71,840	4,28,808
Bengal	2,16,559	83,870	2,92,959	1,33,145
Delhi	16,761	22,690	11,479	..
Sind	2,261	*	*	*
Mysore	1,097	..	675	..
Kashmir	828	778	2,633	546
Jaipur	273	3,605	..	..
Central Provinces	..	..	..	157
Total—Woollen Materials ..	41,58,833	35,58,480	26,29,659	22,24,252

*Included in Bombay.

Class of material and province in which purchased.	1936-37.	1935-36.	1934-35.	1933-34.
	Rs.	Rs.	Rs.	Rs.
Jute, Hemp and Flax Materials.				
Bengal	10,91,340	9,55,059	13,76,414	5,85,478
Bombay	60,216	94,884	92,083	61,115
United Provinces..	43,146	3,982	15,971	30,749
Sind	17,983	*	*	*
Delhi	11,791	6,006	5,232	1,412
Madras	10,677	2,395	6,479	1,596
Punjab	8,104	47,731	88,166	23,095
Kashmir	569	115	..	..
Mysore	..	..	310	..
Total—Jute, Hemp and Flax Materials.	12,43,826	11,10,172	15,78,655	7,03,445
Leather Materials.				
United Provinces..	88,399	94,283	1,17,590	81,084
Bengal	65,363	46,572	30,600	33,369
Bombay	35,857	23,546	26,242	16,976
Punjab	35,751	31,464	28,001	524
Madras	6,685	2,810	2,452	371
Sind	751	*	*	*
Central Provinces	..	..	..	138
Gwalior	..	..		15
Total—Leather goods ..	2,32,806	1,98,675	2,04,885	1,32,477

*Included in Bombay.

Class of material and province in which purchased.	1936-37.	1935-36.	1934-35.	1933-34.
	Rs.	Rs.	Rs.	Rs.
Engineering, Hardware and Miscellaneous stores.				
Bengal	3,16,05,052	2,40,29,630	1,85,19,163	1,29,15,049
Bombay	97,06,670	96,79,302	82,97,207	92,65,361
Bihar	24,12,177	38,99,546	30,22,905	87,167
Burma	21,67,300	23,33,008	11,94,953	2,51,428
Punjab	18,58,230	23,73,452	27,26,101	28,89,034
Sind	16,51,766	*	*	*
Delhi	11,85,375	6,26,772	9,83,733	4,90,177
Madras	7,88,919	6,13,838	6,89,390	8,99,935
Central Provinces	6,15,809	7,82,780	8,28,290	12,648
United Provinces..	5,14,825	5,97,762	6,03,625	4,37,104
Bundi	2,59,996	2,98,491	3,18,563	..
Mysore	2,36,166	2,83,443	1,80,841	54,538
Hyderabad	52,865	1,09,726	1,13,209	..
Gwalior	41,647	78,059	75,442	..
Baroda	38,693	49,901	1,68,407	..
Porbunder	22,496	22,025	13,257	..
Assam	11,130	1,43,484	1,72,281	13,207
Aundh	7,112	9,499	9,010	..
Cochin	6,428	1,415	..	..
N.-W. F. P.	258	1,032	60	..
Bhavnagar	152	..	..	..
Baluchistan	..	3,400	..	6,336
Andamans	..	125	1,438	..
Indore	..	142	..	986
Total—Engineering Hardware and Miscellaneous stores.	5,31,82,769	4,59,36,832	3,79,17,875	2,73,22,970

*Included in Bombay.

Class of material and province in which purchased.	1936-37.	1935-36.	1934-35.	1933-34.
Total.	Rs.	Rs.	Rs.	Rs.
Bengal	3,37,33,682	2,56,66,721	2,08,89,246	1,44,10,705
Bombay	1,14,99,405	1,16,48,282	96,56,671	1,06,71,698
United Provinces..	42,80,239	40,40,895	29,28,251	24,33,513
Punjab	30,02,524	33,68,661	36,75,159	34,07,398
Madras	26,78,568	19,48,413	18,78,390	23,31,521
Bihar	24,12,177	38,99,546	30,22,905	87,167
Burma	21,67,003	23,33,008	11,97,247	2,51,428
Sind	16,88,014	*	*	*
Delhi	12,55,605	7,15,511	10,17,102	5,02,644
Central Provinces	7,10,542	9,75,445	9,49,578	3,28,002
Bundi	2,59,996	2,98,491	3,18,563	..
Mysore	2,37,263	2,83,443	1,83,931	56,037
Indore	1,37,857	142	..	986
Hyderabad	52,865	1,09,726	1,13,772	174
Gwalior	41,647	78,059	75,442	15
Baroda	38,693	49,901	1,68,407	..
Porbunder	22,496	22,025	13,257	..
Assam	11,130	1,43,484	1,72,281	13,207
N.-W. F. P.	8,569	1,032	60	..
Aundh	7,112	9,499	9,010	..
Cochin	6,428	1,415	..	..
Kashmir	1,397	893	2,633	546
Jaipur	273	3,605	..	..
Bhavnagar	152	..	..	..
Baluchistan	..	3,400	..	6,336
Andamans	..	125	1,438	..
Total—Stores purchased in the Indian market.	6,42,53,637	5,56,01,722	4,62,73,343	3,45,01,377
Total—Stores purchased from Government Departments or Depots (*vide* Appendix VII).	49,916	37,481	1,45,570	65,518
Total—Stores purchased direct from abroad (*vide* Appendix VII).	6,02,981	2,65,663	12,17,338	14,27,240
Grand Total ..	6,49,06,534	5,59,04,866	4,76,36,251	3,59,94,135

*Included in Bombay.

APPENDIX IX.

Lists of Items of Stores on "Rate" and "Running" contracts.

(*Vide* paragraphs 2 and 29 of the Report.)

A.—ITEMS OF STORES FOR WHICH "RATE" AND "RUNNING" CONTRACTS WERE ENTERED INTO BY THE HEADQUARTERS OFFICE DURING THE YEAR 1936-37.

COTTON.

1. Bags, postal.
2. Bandage cloth.
3. Bunting cloth, red and green.
4. Capes, waterproof.
5. Cloth, Jaconet.
6. Cloth, grey, domestic.
7. Cloth, sheeting.
8. Coats, waterproof.
9. Cotton waste, white, teased and unteased.
10. Cotton waste, coloured.
11. Dosuti.
12. Drill, blue, grey, khaki and white.
13. Durries.
14. Dusters.
15. Flags, bunting, red and green.
16. Gauze absorbent, cotton, white.
17. Holland cloth.
18. Lining cloth.
19. Long cloth, bleached, grey.
20. Mosquito cloth.
21. Pugri cloth, khaki, red and blue.
22. Pugri cloth, white.
23. Putties, cotton, blue.
24. Sheets, bed.
25. Tapes.
26. Thread, sewing.
27. Towels, hand.
28. Turbans, red.
29. Twill, cotton, khaki.
30. Twine.
31. Umbrellas.
32. Wicks.
33. Wool, cotton, absorbent.

WOOLLEN.

34. Blankets.

WOOLLEN—*contd.*

35. Broad cloth, superfine.
36. Caps, balaclava.
37. Drawers, woollen.
38. Flannels.
39. Jerseys.
40. Jackets, cardigan, waistcoats, etc.
41. Putties, woollen.
42. Serges.
43. Twill cloth, of colours.

JUTE, HEMP AND MISCELLANEOUS.

44. Bags, mail, postal.
45. Buttons, gold.
46. Canvas.
47. Coir yarn and matting.
48. Cordage, manilla.
49. Imitation leather cloth.
50. Lace, gold.
51. Linoleum.
52. Paulins, flax and jute.
53. Tassels, gold.
54. Uniforms, making up of, including supply of all garments.

LEATHER.

55. Hides, buff.
56. Portfolios, bags, etc., for postal use.

ENGINEERING AND MISCELLANEOUS STORES.

57. Abrasive materials.
58. Acids, Sulphuric, Nitric and Hydrochloric.
59. Alumina Ferric.
60. Ammonium Chloride.
61. Anchors, rail.
62. Angulars, tin.
63. Antimony Ingots.
64. Axle box key plate.
65. Badges, brass.
66. Bearings, ball and roller.
67. Belting, train lighting and workshop.
68. Belt fasteners.
69. Bituminous solution.

ENGINEERING AND MISCELLANEOUS STORES—*contd.*

70. Boards, sign, or notice, enamelled, sheet steel.
71. Boards, tin, paper covered.
72. Bolts and nuts.
73. Boxes for Insurance seals.
74. Boxes and trays, tin, for cash, postage stamps, etc.
75. Brushes, carbon.
76. Brushes, bannister.
77. Brushes for cleaning stamps.
78. Brushes, painters.
79. Buffer parts.
80. Bugles.
81. Buttons, brass, and gilt.
82. Cables, signalling.
83. Cables, V. I. R. insulated and braided.
84. Cables, V. I. R. insulated tough rubber-sheathed.
85. Cables, V. I. R., insulated, lead sheathed.
86. Cables, flameproof.
87. Cables, locomotive head-light.
88. Calcium carbide.
89. Candles, wax.
90. Carbons and zinc elements, A. D. wet cells.
91. Caustic soda.
92. Ceiling roses and porcelain connectors.
93. Cells, caustic soda.
94. Cells, inert and dry.
95. Cells, train lighting, spares for.
96. Cement, ordinary and rapid hardening.
97. Cement, Portland.
98. Charpoys, iron piping.
99. Chests, cash, iron.
100. Chimneys for lanterns.
101. Chloride of lime.
102. Cobalt liquid driers.
103. Compound, metal cleaning.
104. Conduit pipes and fittings.
105. Cooking ranges.
106. Cords, flexible, V. I. R.
107. Couplers, intervehicle, spares for.
108. Creosote.
109. Crucibles, plumbago.

ENGINEERING AND MISCELLANEOUS STORES—*contd.*

110. Cutlery.
111. Disinfectants.
112. Dust shields, plywood and leather.
113. Dynamos, train lighting, spares for.
114. Electrodes.
115. Electrolyte for train lighting cells.
116. Epsom salts.
117. Fans, ceiling, table, A. C. and D. C.
118. Fencing.
119. Files, steel.
120. Fire bricks.
121. Fire clay.
122. Fire extinguishers.
123. Fittings, carriage body, rubber and metallic.
124. Fittings, Vacuum brake.
125. Fish bolts and nuts, fang bolts and nuts, crossing bolts and nuts, dogspikes, round spikes.
126. Forges.
127. Gas, acetylene, dissolved.
128. Gas, carbonic acid.
129. Glass sheets, plates.
130. Glasses, looking.
131. Graphite.
132. Grinding wheels.
133. Handcuffs.
134. Heaters, electric.
135. Horn, check section.
136. Hose, I. R. delivery cold water.
137. Hose, I. R. compressed air.
138. Hose, canvas, fire service.
139. Hose, pneumatic.
140. Instruments, testing.
141. Insulating materials :—
    (*a*) Cotton, tape, Egyptian.
    (*b*) India rubber strips, pure Para.
    (*c*) Tape, adhesive, black.
    (*d*) Varnish, insulating, air drying and stoving.
    (*e*) Compounds for cable sealing boxes.
142. Jaws, M. S.
143. Jointings.
144. Lamp holders.

ENGINEERING AND MISCELLANEOUS STORES—*contd.*

145. Lamp locks, brass.

146. Lamps, electric.

147. Lanterns, hurricane and chimneys.

148. Lanterns and common lamps, tin.

149. Letter boxes.

150. Liquid chlorine.

151. Locks.

152. Metal polish.

153. Meters, electricity, house service.

154. Meters, water.

155. Motor vehicles and spare parts :—

(*a*) Chevrolet truck chassis, passenger cars and spare parts.

(*b*) Ford motor cars, trucks, chassis, etc., and spare parts.

(*c*) Morris cars.

(*d*) Morris Commercial Vehicles.

(*e*) Spare parts for Morris cars, Wolseley cars and Morris Commerical Vehicles for the Army and R. A. F. in India.

(*f*) (*i*) Spare parts for Albion six wheeled 3 ton Model I. O. 32.

(*ii*) Spare parts for Albion Model I. O. 41 Chassis.

(*g*) Spare parts for Thornycroft 'A' 4 and 'A' 5 medium six wheeled lorries.

(*h*) Spare parts for Humber Snipe Cars.

156. Oil, caster.

157. Oil, cocoanut.

158. Oil, fuel.

159. Oil, gas making.

160. Oil, kerosene.

161. Oil, linseed.

162. Oils, lubricating and greases.

163. Oil, stand.

164. Packings, asbestos.

165. Paints, enamels, varnishes, dry pigments, etc.

166. Paint remover.

167. Paper files, brass.

168. Petrol.

169. Pig iron.

170. Pilot balloons, rubber.

171. Pipes and specials.

ENGINEERING AND MISCELLANEOUS STORES—*contd.*

172. Pipes, asbestos cement.

173. Pipes and specials, C. I.

174. Pipes and fittings, M. S.

175. Plates, bearing, M. S.

176. Plates, division auxiliary bearing spring.

177. Plates, fish, compound.

178. Points and crossings.

179. Point rodding.

180. Poles, steel, tubular.

181. Road dressing materials.

182. Road signs.

183. Roofing materials.

184. Rope, wire.

185. Rosin.

186. Sac elements.

187. Safes, burglar and fire proof.

188. "Safolene" cleaner.

189. Scales and weights.

190. Screws, rail.

191. Screws, wood.

192. Screw-coupling hooks.

193. Seals, lead.

194. Separators, wooden, for train lighting cells.

195. Shades :—

Enamelled iron.

White, opal, conic and langham.

Vellum, for table standards.

196. Sheets, asbestos cement and accessories.

197. Shellac.

198. Signalling and Interlocking Materials.

199. Signals, fog, detonating.

200. Soaps, soft and hard.

201. Spear heads, brass belts and iron rings.

202. Spirit, methylated, denatured.

203. Speed recording charts for electric locomotives.

204. Springs, I. R. for buffer.

205. Springs, I. R. bolster.

206. Springs, I. R. for bearing springs and I. R. bolster.

207. Springs, helical.

208. Stamp dampers.

209. Standards, table, electric bakelite and shades.

ENGINEERING AND MISCELLANEOUS STORES—*concld.*

210. Steel, round, for manufacture of spring eye bolts.
211. Steel, high tensile.
212. Steel sections.
213. Steel spring.
214. Steel tool.
215. Sulphate of Alumina.
216. Sulphate of Copper.
217. Superheater elements.
218. Switches, rail.
219. Switches, tumbler, single pole, surface and sunk types.
220. Switches, tumbler, with fuses train lighting.
221. Switches, tumbler, single pole, combined with plugs.
222. Switches with fuses, iron clad, double pole.
223. Tallow.
224. Tar, crude.
225. Target apparatus.
226. Tools, small and hand.
227. Tools, track.
228. Tubes, steel.
229. Turpentine, genuine and white spirit.
230. Tyres and tubes, rubber, for bicycles.
231. Valves, sluice.
232. Wall plugs and sockets.
233. Wheels and axles for light riding trollies.
234. Wire, copper, bare, solid, hard drawn, of sizes.
235. Wire, copper, single and double cotton covered, and double silk covered.
236. Wire, galvanised, steel barbed.
237. Wire, iron galvanised, strand, for fencing.
238. Wire, iron, galvanised.
239. Wire, mild steel, black and galvanised.
240. Wire, steel, strand, for singalling.
241. Zincs, cylindrical, cutaway pattern, for Leclanche cells.
242. Zincs, circular, for Leclanche cells.

B.—CONTRACTS ENTERED INTO BY THE CONTROLLER OF PURCHASE, CALCUTTA.

TEXTILES AND LEATHER STORES.

1. Bags, canvas, cotton.
2. Bags, canvas, flax, for Linemen.
3. Bags, canvas, for Linemen's tools.
4. Bags, canvas, planter's, flax.
5. Bags, gunny, "A" twill, double stitched.
6. Bags, gunny, heavy, 'C.'
7. Bags, gunny, Liverpool twill.
8. Bags, gunny, wool. pack.
9. Bags, kit, green, cotton canvas.
10. Buttons, leather, green.
11. Butts, leather, tanned English.
12. Canvas, jute.
13. Caps, black, cherry top.
14. Caps, black, forage.
15. Caps, cloth, blue straw bound.
16. Caps, Melton blue.
17. Caps, drill, blue.
18. Caps, drill, khaki.
19. Caps, cloth, blue, straw bound.
20. Caps, serge, blue.
21. Caps, woollen, blue.
22. Caps, woollen, forage, blue.
23. Caps, velvet, blue.
24. Cases, pillow, unbleached.
25. Cloth, Alpaka, dark blue.
26. Cloth, baize, green.
27. Cloth, bandage, bleached.
28. Cloth, bandage, unbleached.
29. Cloth, calico, unbleached.
30. Cloth, dosuty, unbleached.
31. Cloth, gauze, bleached.
32. Cloth, hessian.
33. Cloth, long, bleached.
34. Cloth, markin, grey.
35. Cloth, markin, unbleached.
36. Cloth, mulmul.
37. Cloth, nainsook.
38. Cloth, saloo.
39. Cloth, selvyt, 'C.'
40. Cloth, sheeting, unbleached.

TEXTILES AND LEATHER STORES—*contd.*

41. Cord, laid, hemp.
42. Cord, seaming.
43. Cotton waste, white, teased.
44. Cotton wool, absorbent.
45. Covers, mattresses.
46. Covers, pillow, long cloth.
47. Flannel, khaki.
48. Hats, sola, khaki.
49. Helmets, cork covered, with white drill pugree.
50. Helmets, cork, white.
51. Helmets, drill, cork, pugree, white.
52. Hides, tanned, buffalo.
53. Hides, tanned, butt, English.
54. Hides, tanned, cow, country.
55. Hides, tanned, cow, half.
56. Jute, combing.
57. Jute, dressed.
58. Jute, gasketting.
59. Leather for washers.
60. Line, fish.
61. Line, log.
62. Lint, absorbent.
63. Mattresses, coir.
64. Nets, mosquito.
65. Netting, mosquito.
66. Pouches, leather.
67. Rope, hemp.
68. Rope, jute.
69. Ropes, manilla.
70. Sandals, leather.
71. Schemis, adult size.
72. Sheets, bed, bleached.
73. Sheets, bed, unbleached.
74. Sheets, draw.
75. Sheets, draw, twill, cotton, bleached.
76. Sheets, lead, unbleached.
77. Serge, green.
78. String, coir.
79. Tape, cotton, white.
80. Thread, hessian, waste.
81. Thread, sewing, linen, green.
82. Thread, sewing, linen, white.
83. Thread, sewing, linen, whity brown.

TEXTILES AND LEATHER STORES—*concld.*

84. Towels, hand, Huckaback.
85. Towels, hand, Turkish.
86. Towels, honeycomb, bleached.
87. Towels, Turkish, bath.
88. Twine, hemp.
89. Twine, flax.
90. Twine, jute.
91. Twist cotton for wicks.
92. Umbrellas.
93. Ubmrellas, trolly.
94. Viyella, blue.
95. Wicks, cotton, kerosene.

ENGINEERING AND MISCELLANEOUS STORES.

96. Asbestos, mill board.
97. Accessories and equipment for Turbo Generators.
98. Badges, brass.
99. Bedsteads.
100. Belting, balata.
101. Belting, camel hair.
102. Belting, leather.
103. Belting, train lighting.
104. Blocks, Rosette, complete.
105. Boards, switch, wooden.
106. Boards, teakwood.
107. Bolts and nuts.
108. Bones, cuttle fish.
109. Bottles, water, aluminium.
110. Brooms, cocoanut.
111. Brushes, bannister.
112. Brushes, carbon.
113. Brushes, ground, oval.
114. Brushes, hard, boot polish.
115. Brushes, lettering,
116. Brushes, paint, sashtool.
117. Brushes, varnish, oval.
118. Brushes of sorts.
119. Brushes, wire.
120. Buckets, fire.
121. Buckets, G. I.
122. Casing and capping, teakwood.
123. Cellulose lacquer, of sorts.
124. Cellulose, spraying retarder.

ENGINEERING AND MISCELLANEOUS STORES—*contd.*

125. Cement, roof, asbestos, valamoid.
126. Cement, Rohtas.
127. Channels, elbow.
128. Chatterton compound.
129. Cleanser, concentrated.
130. Clips, hose, pipe.
131. Cloth, emery.
132. Cock, bib, brass.
133. Cock, stop, galvanised.
134. Crockery.
135. Crucibles, plumbago.
136. Cutter picks.
137. Cutlery.
138. Dubbin, black.
139. Drill bits.
140. Dust shield.
141. Files of sorts and sizes.
142. Fittings, headlight.
143. Fittings, vacuum brake.
144. Fittings, water.
145. Flour, fine.
146. Fluid, soldering.
147. Gas, nitrous oxide.
148. Gas, oxygen.
149. Grease, Belmoline.
150. Gum, mastic.
151. Handles, hammer.
152. Handles, wooden, for shovel.
153. Horn, check section.
154. Hose, fire, canvas, flax.
155. Hose, I. R.
156. Hose, pipes.
157. Hydrometers.
158. Iron square.
159. Iron square, best yorkshire.
160. Keys, wooden babool.
161. Link clips.
162. Metal expanded.
163. Nails, iron.
164. Nails, steel, mild.
165. Oil, chloridol.
166. Oil, Diesel.

ENGINEERING AND MISCELLANEOUS STORES—*contd.*

167. Paint, brown.
168. Paint, dry, green.
169. Paint, Ferrodor.
170. Paint, white, thick, for lettering.
171. Paint, white, thick, ready mixed.
172. Paint, lead, dark colour.
173. Panes, glass of sizes.
174. Petrol.
175. Petrol, B. O. C.
176. Phowras, Agrico.
177. Plates, bearing, C. I.
178. Plates, box types, middle, negative.
179. Plates, steel mild.
180. Pliers, cutting and twisting.
181. Plugs.
182. Plugs, Rawl.
183. Plugs, wood, Henley patent.
184. Powder, carbolic, disinfecting.
185. Pump, tubewell, hand driven.
186. Pump, tubewell, spares.
187. Pulleys.
188. Rope, wire, ungalvanised.
189. Rust remover.
190. Screw driver.
191. Screws, rail.
192. Screws, wood, iron and brass.
193. Seal-holders, tin.
194. Seals and strapping, steel.
195. Sheets, asbestos, wire, insertion.
196. Sheets, zinc, plain.
197. Shovel, firing.
198. Sleeves, lead, paper.
199. Soap, cleanser.
200. Soap, coarse, country.
201. Sockets.
202. Soda, light, ash.
203. Solder, Resinkor.
204. Spanners, double ended.
205. Springs, I. R.
206. Spring steel, flat.
207. Staples.
208. Steel-holder.
209. Steel sections, mild.

ENGINEERING AND MISCELLANEOUS STORES—*contd.*

210. Steel, special ' Kaset '.
211. Steel, tool.
212. Tapes, metallic.
213. Turbo-generator.
214. Valve, release.
215. Watches, pocket, Rly. lever.
216. Wax, ceresin.
217. Wheels, grinding.
218. Whiting.
219. Window pad, I. R.
220. Wire, barbed, G. I.
221. Wire, flexible, silk covered.
222. Wire jumper.
223. Wire, netting, G. I.
224. Wire, wove, G. I.
225. Wire, copper, binding, bare, annealed.
226. Wire, maconite.
227. Wrenches, double.
228. Wrenches, sliding.

C.—CONTRACTS ENTERED INTO BY THE CONTROLLER OF PURCHASE, BOMBAY.

TEXTILE AND LEATHER STORES.

1. Aprons, canvas.
2. Bags, brown, leather, etc.
3. Bags, canvas, dark grey.
4. Belts, waist, leather.
5. Braid, cotton and woollen.
6. Canvas, green.
7. Caps, Indian staff.
8. Cloth, cheese.
9. Cloth, chintz.
10. Cloth, long.
11. Cloth, long, bleached, etc.
12. Cloth, table, demask, etc.
13. Cord, cotton, white.
14. Flags, banner.
15. Hides, calf.
16. Hides, calf, tanned.
17. Hides, country, leather.
18. Hides, hydraulic, leather.
19. Hides, leather.

M49ISD

TEXTILE STORES AND LEATHER—*contd*

20. Hides, tanned.
21. Laces, leather.
22. Leather, tanned, goat's.
23. Rope, cotton.
24. Skin, chamois.
25. Skin, goat, unsplit.
26. Suits, etc., white drill.
27. Thread, cotton.
28. Thread, sewing, cotton and linen.
29. Towles, hand, honeycomb.
30. Twist, cotton.

ENGINEERING AND MISCELLANEOUS STORES.

31. Battery, terminals.
32. Bell pushes, bakelite.
33. Belt, rubber.
34. Bicycles and accessories.
35. Blades for fans.
36. Bolts and nuts, G. I., etc.
37. Bolts, door, Aldrop.
38. Bolts, door, barrel.
39. Boxes, jointing, for fan circuits, etc.
40. Brooms, Goa, camphor, etc.
41. Buckets, G. I.
42. Cartridge for fuses.
43. Claws, wire, pliers, etc.
44. Clips, link, light.
45. Clips for locking bayonet, cap lamps, etc.
46. Clocks and time-pieces.
47. Cloth, carborundum, etc.
48. Cocks, brass, etc.
49. Cocks, bib, & stop brass, etc.
50. Cocks, " Waste not ".
51. Connectors, copper, wire, etc.
52. Cords for telephones.
53. Cords, instruments, etc.
54. Covers, bakelite.
55. Cut outs, porcelain.
56. Diamond glaziers.
57. Diaphragms, carbon, etc.
58. Enamel, electric special thinner.
59. Fittings, berth, light.
60. Fittings, panel.
61. Globes.
62. Globes for ceiling light, etc.

ENGINEERING AND MISCELLANEOUS STORES—*contd.*

63. Handles, sieves, G. I.
64. Handles, knives, clasp.
65. Handles, wood.
66. Hinges, M. S.
67. Insulators, rubber.
68. Jars, brown, stone.
69. Jointing, asphalt.
70. Nails, cut tack blued iron.
71. Nails, French, flat head.
72. Nails, rose head.
73. Nuts, fly, brass.
74. Oil, cylinder.
75. Oil, crane chamber.
76. Packing, I. R.
77. Pliers, gas, etc.
78. Powder "Aloxite" abrasive.
79. Regulators for fans, etc.
80. Rings, I. R.
81. Rivets, copper, etc.
82. Saw frames.
83. Sheets, anti-volt.
84. Sheets, cotton, pressed, deck.
85. Sheets, fibre, red, etc.
86. Sheets, fuller board.
87. Sheets, I. R.
88. Sheets, leatheroid, etc.
89. Sheets, mica, pure.
90. Sheets, micanite, flexible, etc.
91. Sockets, shell.
92. Spanners.
93. Stay tubes.
94. Tape, micanite, flexible.
95. Tape, cotton, welding, etc.
96. Terminals, brass.
97. Valves, wheel, gunmetal, etc.
98. Vices, parallel.
99. Wax, bees.
100. Wire, steel, binding, etc.

D.—CONTRACTS ENTERED INTO BY THE CONTROLLER OF PURCHASE, KARACHI.

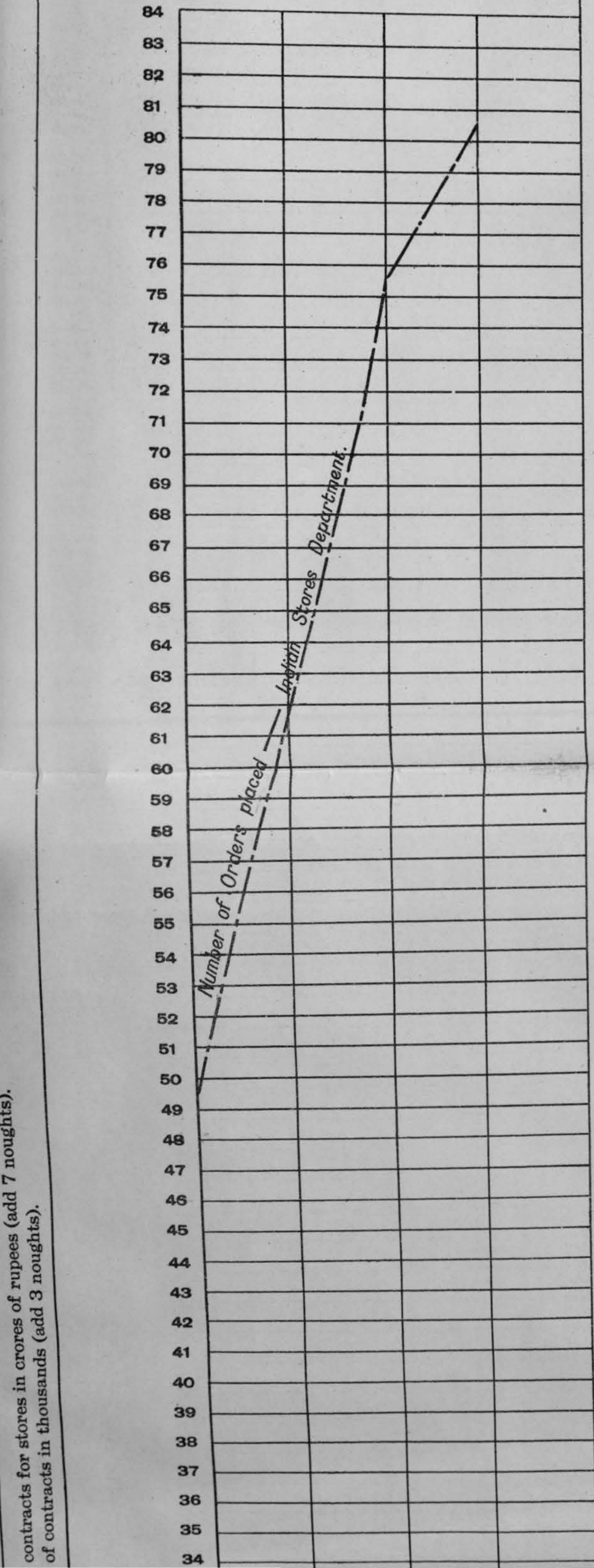
1. Bicycles.
2. Blades, hacksaw.
3. Bolts, and nuts.
4. Brushes, bannister.
5. Brushes, brass.
6. Brushes, paint.
7. Brushes, scrubbing.
8. Brushes, wire.
9. Buckets.
10. Clocks.
11. Crockery.
12. Cutlery.
13. Drill, cotton, bleached and unbleached.
14. Emery cloth.
15. Files, cast steel.
16. Fittings, door.
17. Fittings, water.
18. Handles for shovels and pickaxes.
19. Kodalies.
20. Nails, iron, wire.
21. Panes, glass.
22. Pickaxes.
23. Rivets, M. S.
24. Sand paper.
25. Screws, iron and brass.
26. Sheets, "Celotex", "Pioneer" and "Treetex".
27. Shovels.
28. Soda, washing.
29. Soda, caustic.
30. Solignum.
31. Timepieces.
32. Tumblers, glass.
33. Washers.

APPENDIX X.

VALUE OF STORES PURCHASED AND NUMBER OF CONTRACTS PLACED BY THE LONDON AND INDIAN STORES DEPARTMENTS.

(Vide paragraph 2 and 34 of the report).

The London Store Department figures represent the value of contracts for stores and freight converted into Indian currency at a uniform rate of 1 s. 6 d. to the rupee. The Indian Stores Department figures represent the value of contracts placed.



APPENDIX XI.

Comparative statement of purchases made by the London and Indian Stores Departments.

The figures are in thousands of rupees. (*Vide* paragraphs 2 and 34 of the Report.)

Indenting Departments.	Textiles and Leather stores.		Engineering, Hardware and Miscellaneous Stores.		Other classes of stores. (*a*)		Total.	
	London Stores Department.	Indian Stores Department.	London Stores Department.	Indian Stores Department.	London Stores Department.	Indian Stores Department.	London Stores Department.	Indian Stores Department.
1. *Central Departments*— Defence—								
1933-34	414	4,659	657	3,589	9,797	..	10,868	8,248
1934-35	509	5,316	805	3,291	8,897	..	10,211	8,607
1935-36	1,725	4,915	1,126	5,452	5,598	..	8,449	10,367
2. *Central Departments*— Civil—								
1933-34	8	825	88	2,143	835	..	931	2,968
1934-35	9	770	157	4,927	1,843	..	2,009	5,697
1935-36	14	929	217	8,146	1,454	..	1,685	9,075
3. *Railways*—								
1933-34	1	2,046	567	15,559	29	..	597	17,605
1934-35	3	2,559	465	23,939	7	..	475	26,498
1935-36	3	2,910	351	26,111	23	..	377	29,021
4. *Provincial Governments*—								
1933-34	80	1,015	326	4,924	807	..	1,213	5,939
1934-35	116	908	638	4,310	1,125	..	1,879	5,218
1935-36	59	1,158	5,929	5,193	1,064	..	7,052	6,351
5. *Indian States, Foreign Governments and* Quasi-*Public bodies*—								
1933-34	..	10	..	1,224	..	..	..	1,234
1934-35	..	32	..	1,584	..	..	..	1,616
1935-36	..	10	..	1,081	..	..	..	1,091
Totals—								
1933-34	503	8,555	1,638	27,439	1,468	..	13,609	35,994
1934-35	637	9,585	2,065	38,051	11,872	..	14,574	47,636
1935-36	1,801	9,922	7,623	45,983	8,139	..	17,563	55,905

N.B.—The figures of the London Stores Department have been converted at the rate of 1*s.* 6*d.*=Re. 1.

(*a*) Stores not dealt with by the Indian Stores Department, *e.g.*, Medical Stores, munitions, stationery and printing, stamps, currency, foodstuffs, etc.

APPENDIX XII.

List of specifications framed by the Indian Stores Department current at the end of the year 1936-37. (*Vide* paragraphs 3 and 37 of the Report).

INDEX.

Section No.	Name of stores. Main head.	Sub-head.	Classification reference.
1	Bridgework	..	A.
2	Engineer's plant (excluding petty tools)	..	B.
3	Workshop machinery and heavy tools	..	C.
4	Ballast and permanent-way materials	..	D.
5	Rolling stock	..	E.
6	Station materials and fencing ..	..	F.
7	General	..	G.
		(i) Building materials ..	G/Buildings.
		(ii) Chemicals	G/Chemicals.
		(iii) Fuel	G/Fuel.
		(iv) Furniture	G/Furniture.
		(v) Drawing, mathematical and surveying instruments	G/Instruments.
		(vi) Lamps and lamp fittings	G/Lamps.
		(vii) Leather and India rubber goods	G/Leather.
		(viii) Metals	G/Metals.
		(ix) Miscellaneous ..	G/Miscellaneous.
		(x) Oils and lubricants ..	G./O.
		(xi) Paints and Painter's materials	G./P.
		(xii) Printing presses and material	G/Prints.
		(xiii) Sanitary Stores ..	G/Sanitary.
		(xiv) Stationery	G/Stationery.
		(xv) Cloth, Clothing and equipment	G/Textiles.
		(xvi) Timber	G/Timber.
		(xvii) Hardware, copper, tin and zinc ware ..	G/Ware.
		(xviii) Waterworks stores ..	G/W. W.
8	Electrical plant and materials	..	H
9	Power and industrial plant ..	..	P.I.

List of Indian Stores Department General Specifications current at the end of the year 1936-37.

Specification No.	Description.	Remarks.
	BRIDGEWORK—A.	
A-33 K	Steelwork	
A-34 C	Steel sheet piling with clutch (joist pattern) ..	Saleable.
A-35 K	Structural steel.	
A-40 D	Steel bridgework.	
‡A-48 E	Tank and staging (corr. No. 1 of March 1937) ..	Saleable.
A-49 A	Tanks steel welded, with staging, welded or riveted ..	Saleable
	ENGINEERS PLANT (EXCLUDING PETTY TOOLS)—B.	
B-45 B	Vertical boilers	Saleable.
B-50 D	Boilers, loco. multitubular	Saleable.
B-53 B	Hand operated, overhead traversing and travelling crane	Saleable.
	WORKSHOP MACHINERY AND HEAVY TOOLS—C.	
C-29 B	Machine tools	Saleable.
	BALLAST AND PERMANENT-WAY MATERIALS—D.	
D-1 D	Light railway track for construction work (Not for passenger traffic)	Saleable.
D-2 C	Tip trucks for 1′-6″, 2′-0″ and 2′-6″ gauge railway contractors type.	
D-6	*(Cancelled).*	
D-15	Steel fishbolts and nuts and washers for use on Railways.	
D-16 A	*(Cancelled).*	
D-17 A	*(Cancelled).*	
D-18 A	Steel screw spikes	Saleable.
	ROLLING STOCK—E.	
E-28	Weigh-bridges.	
E-29 A	Engine turntables.	
E-32	Steam locomotive crane.	
E-37 B	Steel laminated springs for locomotives, carriages and wagons for Railways.	
E-38	Cast steel wheels and axles 2′-6″ gauge.	
E-42 D	Rivets or rivet bars, mild steel.	
E-47 B	M. S. bolts, nuts and washers, black .nd galvanised.	
E-48	Cast steel wheels and axles, 2′-6″ gauge for light tip trucks and other unimportant work.	
E-49 A	Cast iron super heater headers for locos. for railways.	
E-50 B	Steel tyres for locomotives, tenders, carriages and wagons.	
E-53	Axle boxes, cast steel, for railway rolling stock.	
E-54	Pully blocks for wire or manilla rope.	
E-55	Vacuum Gauge 6″ Single.	

Specification No.	Description.	Remarks.
	CHEMICALS—G.	
‡G/Chemicals-9 C	Nitric acid, commercial	Saleable.
‡„ 11 B	Hydrochloric (or muriatic) acid commmercial. Suitable for flux.)	Saleable.
‡„ 12 B	Hydrochloric acid, pure	Saleable.
‡„ 14 B	Sulphuric acid, concentrated, for accumulators ..	Saleable.
„ 15 A	Sulphuric acid, commercial quality	Saleable.
„ 16 A	Alumino ferric	Saleable.
„ 17 A	Sulphate of alumina	Saleable.
G/Chemicals-18 C	Coppper sulphate	Saleable.
„ 19 A	Potassium cyanide for surface hardening of tools ..	Saleable.
„ 20 B	Acetylene gas (dissolved) for industrial purposes	
„ 22 A	Chloride of Lime or Bleaching powder	Saleable.
„ 23 A	Calcium Carbide for acetylene gas productions ..	Saleable.
‡„ 24 C	Salammoniac (Ammonium Chloride) (Corrigendum No. 2 of September 1936)	Saleable.
„ 25 A	Gas carbonic acid (carbon dioxide).	
„ 26 B	Caustic soda, Commercial	Saleable.
„ 27	Borax for brazing	Saleable.
„ 28	Soda ash	Saleable.
„ 29 A	Alum (potash) Commercial	Saleable.
„ 31	Sodium cyanide for surface hardening of tools ..	Saleable.
†„ 32	Stable bleaching powder or chloride of lime (Corr. No. 1 of February 1937)	Saleable.
	LAMPS AND LAMP FITTINGS—G.	
*G/Lamps-25	Hurricane lanterns, storm and weather-proof ..	Saleable.
	LEATHER AND INDIA RUBBER GOODS—G.	
G/Leather-43 A	Leather, buffalo and cow and sheep skin	Saleable.
„ 48 B	Boots ammunition, No. 5 quality.	
‡„ 56 C	Boots, ammunition for Police constables	Saleable.
„ 61 A	Skin wash or chamois leather.	
„ 64 A	Upholstery hides	Saleable.
	METALS—G.	
G/Metals-9	Manganese steel castings.	
„ 16 E	Mild steel rods for ferro-concrete work ..	Saleable.
„ 17 A	Case hardening and welding quality steel bars and billets.	
‡„ 40 B	Tin plate	Saleable.

Specification No.	Description.	Remarks.
	METALS—G—*contd.*	
‡G/Metals-41 H	Galvanized mild steel sheet and ridging (plain and corrugated)	Saleable.
„ 45 A	Lead sheet.	
„ 46 A	Pig lead	Saleable.
‡„ 48 B	Pig iron	Saleable.
„ 52	Copper alloys for carriage and wagon axle-box brasses	
„ 53 B	(Soft solders).	
„ 54 B	Tin sticks (for tinning cooking vessels and similar purposes)	Saleable.
„ 55 A	Tin ingots (ordinary and refined)	Saleable.
„ 56 A	(*Cancelled*).	
„ 57 A	(*Cancelled*).	
„ 58 A	Copper sheets, annealed for spinning or cold working.	
„ 59 A	Brass sheets, annealed, for spinning or cold working and die pressing.	
„ 60	(*Cancelled*).	
„ 67	(*Cancelled*).	
„ 68	(*Cancelled*).	
„ 69	(*Cancelled*).	
„ 70	(*Cancelled*).	
„ 71 A	(*Cancelled*).	
‡„ 72 A	M. S. sheet for the Telegraph Department	Saleable.
*„ 75	Zinc (or spelter)	Saleable.
	MISCELLANEOUS—G.	
G/Misc.-1 F.	Padlocks and locks, box, drawer, etc.	Saleable.
„ 15 A	Safes, burglar resisting, non-fire resisting.	
„ 25 A	Buttons, hollow and badges, brass, gilding metal, nickel silver, German silver, white metal, silver and 'bronzed'	Saleable.
„ 30 B	Fire extinguishers, chemical operated, soda acid or foam types	Saleable.
„ 32 D	Scales, lead, circular type for general purposes ..	Saleable.
35 B	Liquid metal polish (Corrigendum No. 1 of July 1935)	Saleable.
„ 36 A	Lead yarn for caulking	Saleable.
„ 37 C	(*Cancelled*).	
„ 38 A	Fire bricks.	
„ 39	Fire clay.	
„ 40 A	Candles, wax, long	Saleable.
„ 41 A	Candles, wax, carriage	Saleable.

Specification No.		Description.	Remarks.
		MISCELLLANEOUS—G—*contd.*	
G/Misc.-51 A		Vitreous enamelled sheet steel gauges and numeral plates	Saleable.
,,	52	Feeders, oils, spring (one pint and half pint capacity).	
,,	57 B	Unlined flax canvas fire hose	Saleable.
,,	58 B	Unlined flax canvas, water delivery hose, for ordinary purposes	Saleable.
,,	59 A	Unlined flax canvas hose, water column	Saleable.
,,	61	Plaster of Paris	Saleable.
,,	62 A	Rosin	Saleable.
* ,,	64 A	Glass, plate and sheet for Railways.	
‡ ,,	66 B	Road signs and standards (Corrigendum No. 1 of September 1936)	Saleable.
,,	69	Hose, India rubber, compressed air delivery.	
,,	70	Hose, India rubber, cold water or ordinary purpose.	
,,	72	Tar coal (for road purposes)	Saleable.
‡ ,,	73 C	Weighing machine, platform	Saleable.
‡ ,,	74 A	Paraffin wax for insulating purposes	Saleable.
* ,,	75	Beeswax	Saleable.
* ,,	76	Mastic	Saleable.
‡ ,,	78 A	Black and galvanized M. S. square or hexagonal head coach screws with gimlet points ..	Saleable.
* ,,	79	Hand operated bellows	Saleable.
* ,,	80	Packing lemp and jute for water pipe and gland packing purposes	Saleable.
* ,,	81	Packing, steam, jointing and other asbestos goods ..	Saleable.
* ,,	84	Handcuffs with female keys (adjustable, non-adjustable and flexible types).	
* ,,	85	Buttons, solid, white metal for Indian State Railways	Saleable.
		OILS AND LUBRICANTS.	
G/O. 1 to	84	Oils and Lubricants. (Pamphlet)	Saleable.
G/O.	58	Oil fuel for high speed diesel engines.	
,,	85	Grease, cup, thin consistency, for locomotive lubrication.	
,,	86	Soft sodium soap grease for locomotive lubrication.	
* ,,	91	Castor oil, special quality.	
		MISCELLANEOUS MATERIALS.	
G/O. P.	1 A	Castor seed	Saleable.
	2	Button lac	Saleable.
	3 C	Shellac	Saleable.

Specification.		Description.	Remarks.
		MISCELLANEOUS MATERIALS—*contd.*	
G/O-P.	4 B	Spirits, denatured, methylated	Saleable.
„	13	Oil, air-craft medium.	
„	14	Oil, air-craft heavy.	
„	33 C	Creosote oil	Saleable.
„	38	Petrol, aviation.	
„	60 C	Soap, hard	Saleable.
„	61 C	Soap, soft	Saleable.
„	64 A	(*Cancelled*) (*See* No. G./Misc. 72).	
„	65 A	Tar crude	Saleable.
„	66 A	Pitch, coal tar, medium	Saleable.
„	68 A	Oxidized (blown) petroleum bitumen	Saleable.
„	69 A	Steam refined petroleum bitumen	Saleable.
„	162	Varnish, insulating, black stoving.	
„	163	Varnish insulating, black air-drying.	
„	164	Compound special high-melting, tropical for cable, sealing boxes, suitable for 6,000 volts working pressure.	
„	395	Temporary rust preventive.	
		PAINTS AND PAINTERS' MATERIALS, ETC.—G.	
G/P-307/1 to 307/256 *7 ‡65		Pigments paints, varnishes, painters' oils and miscellaneous painters' materials. (Corr. No. 1 of August 1936.) (Pamphlet.)	Saleable.
		TIMBERS—G.	
‡ G/Timber-	30 C	Sleepers, Deodar, First Class.	
„	34 A	Teak squares.	
„	35	Teak scantlings.	
„	36 A	Chir or Dhup squares (*Pinus Longifolia* or *Canarium euphyllum*).	
„	37	Toon squares or scantlings (*cedrela toona*).	
‡ „	38 A	Sal Sleepers, First Class.	
* „	39	Sal Sleepers, Second Class.	
		TOOLS—G.	
G/Tools-	1 B	Tools for earthwork, etc. (picks and beaters, kodalies, powrahs, mamooties for hoes, sledge and other hammers, jumper and drill steel) ..	Saleable.
„	2	Anvils.	
„	3 A	Shovels.	

Specification No.	Description.	Remarks.
	HARDWARE, COPPER, TIN AND ZINC WARE—G.	
G/Ware- 30 C	Wire, ordinary, steel, hard or annealed, round or half round, either black or galvanised. (Corrigendum No. 1 of September 1934)	Saleable.
,, 31 B	Iron and steel hoop	Saleable.
,, 32 D	Wire, barbed (Corrigendum No. 1 of September 1934)	Saleable.
,, 33 C	Wire, ordinary steel, round, either black or galvanised, for making mattress cases for boulder filling, for flood protection or similar work	Saleable.
,, 35 A	Brass wire gauze mosquito-proof.	
,, 36 B	Wire, galvanised, strand, fencing. (3 ply and 7 ply)..	Saleable.
,, 37	Short link chain (iron welded) for all services except Marine.	
,, 38	Small ropes or cords of steel wire.	
,, 39 A	Steel wire ropes	Saleable.
	WATERWORKS STORES—G/W/W.	
G/W/W -34 A	Steel pipes and specials for water mains and hydraulic power pipe lines	Saleable.
,, 35 B	Sluice valves	Saleable.
,, 43 B	Lead pipes for water.	
,, 44 B	W. I. or M. S. pipes and fittings for gas, water and steam	Saleable.
‡ ,, 54 A	Water Meters	Saleable.
† ,, 55	C. I. Spigot and socket, rain water drain pipes and fittings. (Corrigendum No. 1 of November 1936)	Saleable.
	ELECTRICAL PLANT AND MATERIALS—H.	
H-23 A	Hand shield side entry, and face entry pattern, two pin wall plugs and sockets for circuits upto 250 volts between poles (without earthing connection)	Saleable.
H-24 A	Handshield side entry, and face entry pattern, three pin type wall plugs and sockets (two-pin and earth type) for circuits upto 250 volts between poles (with earthing connection)	Saleable.
H-25 A	Reversible and non-reversible protected type, two pin plugs and sockets for circuits upto 250 volts between poles (with earthing connections)	Saleable.
H-26 A	Quick make and break tumbler switches (for use on circuits upto 250 volts)	Saleable.
H-27 A	Cable, electric, dry core, paper insulated telegraph, multiple, twin, telephone and composite	Saleable.
H-28 A	Cable, electric, dry core, paper insulated (telephone)	Saleable.
H-29 A	Copper and bronze jointing sleeves, for telegraph and telephone purposes	Saleable.

Specification No.	Description.	Remarks.
	ELECTRICAL PLANT AND MATERIALS—H—*contd.*	
‡ H-34 B	Insulators, porcelain, pin and shackle type, for overhead transmission lines upto 650 volts working pressure	Saleable.
H-42 A	Condensers, metal cased, 1st grade, for telegraphs and telephones	Saleable.
H-45	Steel poles (tubular type), for electric power transmission	Saleable.
H-46 C	Electrical flexible cords, single conductors, etc.	
H-48 F	Fans, ceiling with regulators (with and without condensers). A. C.	Saleable.
‡ H-50 B	Portable electric insulation and resistence testing sets	Saleable.
H-51 C	Switchgear, iron clad, flexible unit type, for A. C. or D. C. constant speed motors	Saleable.
‡ H-55 G	Fans, ceiling with regulators (D. C.) (Corrigendum No. 1 of September 1936)	Saleable.
H-56 D	Hard drawn copper, solid and stranded, circular conductors for overhead power transmission purposes	Saleable.
‡ H-57 B	Cable, single core pure and V. I. R., insulated, taped, braided and compounded, 250 volts, 600 megohms grade	Saleable.
‡ H-58 C	Wood casing and capping and accessories for electric wiring	Saleable.
H-60 B	Wire, copper, hard drawn, bare for telegraphs or telephones. (Corrigendum No. 1 of November 1933 and Corrigendum No. 2 of September 1934) ..	Saleable.
‡ H-61 E	Cables, paper insulated, lead covered and armoured for electricity supply	Saleable.
H-64 C	Fans, electric, desk or pedestal type, D. C.	Saleable.
H-65 C	Fans, electric, desk or pedestal type, A. C.	Saleable.
H-66 C	Composition insulators for the P. and T. Department (Corrigendum August 1933)	Saleable.
‡ H-67 C	Cable, single core, V. I. R. or ITE insulated, flame retarding, and fire resisting (250 volts) 600 megohms grade	Saleable.
H-68 C	Two and four core, twin and quad twisted, compound insulated, lead covered and armoured, telegraph cable	Saleable.
‡ H-69 A	Cable, single core V. I. R. insulated tropical grade, taped, braided and compunded (250 volts), 600 megohm grade	Saleable.
H-70 A	Cords, instrument (tropical finish).	
‡ H-71 D	Wire, copper, silk covered	Saleable.
‡ H-72 C	Wire, copper, cotton covered	Saleable.
H-73 A	Four core, rubber insulated, lead covered and under water telegraph cable	Saleable.

Specification No.	Description.	Remarks.
	Electrical Plant and Materials—H—*contd.*	
‡ H-76 C	Insulators, porcelain, screw pattern	Saleable.
H-77 A	Cable, multicore telephone switchboard (tropical pattern with enamelled conductors)	Saleable.
H-80 A	7 Strand, steel, wire 450 lbs. per mile	Saleable.
H-81 A	(*Cancelled*).	
H-82 A	(*Cancelled*).	
‡ H-83 C	Galvanised iron and steel wires for telegraphs, telephones and cables. (Corrigendum No. 1 of June 1936 and Corrigendum No. 2 of February 1937) ..	Saleable.
‡ H-93 B	Caustic soda primary cells (zinc, copper, oxide type) renewals and battery jars.	
H-94	Glass battery jars	Saleable.
H-95 A	(*Cancelled*).	
H-96 B	Overhead spanning aerial line cable	Saleable.
H-97 A	Cable, single core, tropical pattern with enamelled conductor for telephone switchboard or for winding special armatures, etc.	
‡ H-98 A	Stee cored, copper weld wire. (Corrigendum No. 1 of July 1935 and Corrigendum No. 2 of May 1936)	Saleable.
‡ H-103 A	Sac elements for Leclanche cells.	
H-119	Bronze wires for telegraphs and telephones.	
* H-120	Stationery Batteries.	
* H-121	Stay set.	
	Power and Industrial Plant—P. I.	
P.-I.-19 B	Dragline excavator, light weight, cater-pillar type, oil engine operated.	
P. I.-20 A.	Dragline excavator, light weight, cater-pillar type, steam operated, coal firing.	
P. I.-35 B	Dragline excavator, light weight, cater-pillar type, steam operated, coal or oil firing.	
P. I.-38 D	Petrol paraffin engines	Saleable.
P. I.-40 A	Motor boats.	
P. I.-42 A	Steam pile driving plant	Saleable.
P. I.-43 K	Crude oil engines	Saleable.
P. I.-45 B	Dragline excavator, medium weight, cater-pillar type, steam operated, coal or oil firing.	
P. I.-60 A	Centrifugal pumps for low and medium lifts ..	Saleable.
P. I.-61 A	Stone breaker and screen..	Saleable.
P. I.-62 A	Mortar grinding, mill	Saleable.
P. I.-65 B	Dragline excavator, special light weight, steam operated, coal or oil firing.	

Specification No.	Description	Remarks.
	POWER AND INDUSTRIAL PLANT—P. I.—*contd*	
‡ P. I.-74 C	Industrial type generator and Motors D. C.	
‡ P. I.-75 C	Rotary Converters	Saleable.
P. I.-76 B	Transformer, core type, oil immersed, self cooled for power and lighting	Saleable.
P. I.-77 C	Normal speed revolving field type alternators.	
P. I.-81 E	Switchboard, 660 volts, D. C., open type	Saleable.
P. I.-82 A	D. C. generators 3 wire type and static balancers.	
P. I.-95	Electrically operated, overhead travelling and traversing crane.	
P. I.-106 G	Steam operated road rollers, coal or wood fired ..	Saleable.
‡ P. I.-114 D	Supply of plant and machinery and their erection at site. (Addendum No. 1 of November 1936) ..	Saleable.
‡ P. I.-116 A	Supply of plant and machinery (without erection at site). (Addendum No. 1 of October 1936) ..	Saleable.
‡ P. I.-130 A	Reciprocating steam engines for land purposes.	
‡ P. I.-131 A	Steam turbine for land work.	
P. I.-132 A	Surface condensers.	
‡ P. I.-133 A	Water tube boiler, steam raising plant and auxiliaries.	
‡ P. I.-134 A	High tension alternators of the steam turbine type or of a similar high speed driven type.	
‡ P. I.-135 A	Induction motors.	
‡ P. I.-136 A	Iron clad type starting and control panels for non-reversing A. C. motors upto 600 volts.	
P. I.-137 B	Gear sets, motor driven (A. C. or D. C.) for punkha pulling	Saleable.
* P. I.-138	Electric storage trucks	Saleable.
* P. I.-139	Crude oil engine driven road rollers.	
	TEXTILES—G.	
	Cotton.	
G/Tex/C-1	Cotton twine 5/10s.	
" 6	Cotton twine Boymessenger's bag.	
" 7	Sheets ground, waterproof canvas.	
" 8	Paulins, cotton.	
" 10 B	Bags, kit.	
" 11 A	Bags, ration, waterproof.	
" 13	Capes with hood, waterproof for Indians.	
" 14 A	Capes and hood, waterproof for Burmans.	
‡ " 15 C	Newar, grey	Saleable.
‡ " 16 D	Putties, cotton, of all shades. (Corrigendum No. 1 of November 1936)	Saleable.

Specification No.		Description.	Remarks.
		TEXTILES—G—*contd.* *Cotton*—contd.	
G/Tex/C	18 A	Cotton, wool, absorbent	Saleable.
,,	19 B	Long cloth, cotton, bleached	Saleable.
,,	21 E	Bags, dosuti, Postal	Saleable.
,,	24 D	Yarn, cotton, grey	Saleable.
,,	28 C	Dusters, cotton, hemmed..	Saleable.
,,	30 B	Sheeting, unbleached for veterinary badges.	
‡ ,,	33 E	Threads, cotton, sewing, coloured or white	Saleable.
,,	34	Muslin, bleached.	
,,	36 E	Bandage cloth (bleached)	Saleable.
,,	37 B	Cloth, alpaca, black	Saleable.
,,	39 C	Cloth, paramatta, black	Saleable.
,,	40 D	Twill, cotton, khaki. (Corrigendum No. 1 of January 1936)	Saleable
‡ ,,	43 F	Lining cloths, cotton, satin and silicia cloth.	
,,	45 F	Canvas, cotton, khaki, proofed, for motors hoods ..	Saleable.
,,	48	Jaconet cloth, grey.	
,,	49 C	Waste, cotton, white, for axle box packing.	
,,	50	Waste, cotton, white, No. 1 B. for cleaning high class machinery.	
,,	51 A	Waste, cotton, coloured for cleaning machinery.	
,,	52	Waste, cotton, white or coloured, No. 2 for cleaning ordinary machinery.	
,,	53 G	Drill cotton, dyed, extra heavy, heavy, medium and light qualities (shades other than khaki) ..	Saleable.
,,	54 F	Drill cotton, bleached (heavy, medium and light qualities)	Saleable.
,,	55 D	Drill cotton, khaki (heavy, medium and light qualities)	Saleable.
,,	63	Webbing cotton, khaki.	
,,	64	Kullahs.	
,,	65 B	Dosuti, bleached	Saleable.
‡ ,,	68 C	Cloth cotton, table, bleached. (Corrigendum No. 1 of May 1936)	Saleable.
,,	69 A	(*Cancelled*).	
,,	70 C	Sheets, cotton, bed, unbleached	Saleable.
,,	71	Lungis with headings of gold thread.	
,,	73 B	Lungis, ordinary.	
,,	75 B	Napkins, cotton, table, bleached	Saleable.
,,	78 B	Gabardine, cotton, blue black	Saleable.
,,	81	Pliable sheets of cotton canvas.	

Specification No.	Description.	Remarks.
	TEXTILES—G—*contd.*	
	Cotton—contd.	
G/Tex/C-83 B	Drill, cotton, grey	Saleable.
„ 85 C	Towels, hand, honeycomb, bleached	Saleable.
„ 87 B	Towels, bath, Turk ish, bleached	Saleable.
„ 88 A	Tape, cotton, white, unbleached (for sealing of railway wagons).	
„ 89	Umbrellas.	
‡ „ 91 A	Capes with hood waterproof.	
„ 92 B	Canvas, cotton, green, proofed	Saleable.
„ 93 A	Webbing, cotton, white and coloured.	
„ 94 B	Cloth, ticking, unbleached	Saleable.
‡ „ 96 A	Coats, waterproof. (Corrigendum No. 1 of April 1936.)	
„ 98	*(Cancelled).*	
„ 99	Bags for carrying air mail.	
„ 101 D	Jerseys (banians) cotton, unbleached	Saleable.
„ 102	Cloth Bedford Cord, khaki.	
„ 103 B	Sheets, bed, bleached, for Indians State Railways.	
„ 105	Muslin white bleached (cambric).	
‡ „ 108 A	Netting, cotton mosquito and sand fly and curtains, mosquito	Saleable.
„ 109 A	Stockings, cotton, dyed	Saleable.
„ 110	Kharooa cloth.	
‡ „ 111 B	Canvas, cotton, white. (Corrigendum No. 1 of June 1936)	Saleable.
„ 112 A	Cotton, canvas, khaki, waterproofed for hoods (1st quality)	Saleable.
„ 114 A	Wicks, cotton, flat, suitable for kerosene oil (other than signal lamp wicks)	Saleable.
„ 124 B	Waste, cotton, white, superior, for axle box packing	Saleable.
„ 125 B	Waterproof cape (ground sheet) with a detachable hood.	
„ 127 B	Wicks, cotton, flat, suitable for castor oil	Saleable.
„ 129 B	Sponge cloth	Saleable.
„ 130 A	Twill, cotton, stippped (bleached)	Saleable.
„ 131 A	Cloth, cotton, waterproof, khaki (double fabric, inter-lined with rubber)	Saleable.
„ 132 B	Coir yarn, 2 ply	Saleable.
„ 139 B	*(Cancelled).*	
„ 140 B	Cloth, cotton, plain grey	Saleable.
‡ „ 141 B	Durries, cotton	Saleable.
„ 142 A	Gauze, cotton, absorbent, bleached	Saleable.

Sepcification No.	Description.	Remarks.
	TEXTILES—G—*contd*.	
	Cotton—contd.	
G/Tex/C-143 A	Gauze, absorbent, bleached, for first field dressings (Corrigendum No. 1 of March 1936)	Saleable.
,, 144	Fringes, cotton, dyed.	
,, 145 A	Flanette, cotton, for lining	Saleable.
‡ ,, 146 A	Cloth, cotton, pugri, bleached or dyed. (Addendum No. 1 of September 1936)	Saleable.
,, 149	Cotton, unginned (Kapas).	
,, 150 A	Sheets, cotton, bleached (linen finished) ..	Saleable.
,, 152	Cloth cotton, punkha fringe striped (red striped on grey cotton ground).	
,, 153 A	Boiler cloth.	
* ,, 155	Cotton Nainsook bleached for polishing purposes ..	Saleable.
* ,, 156	Lining, ordinary (striped or bleached plain shirting).	
	Flax.	
G/Tex/F-1	Superintendent's camp bag, flax proofed, canvas, (single) with locking arrangements.	
,, 2	Superintendent's camp bags, flax proofed, canvas, (double) with locking arrangements.	
,, 4 B	Bags, nose.	
,, 5	Buckets, canvas, for ponies.	
,, 6 B	Planter's bags with locking arrangements (unproofed) and planter's bag (proofed) and with locking arrangements.	
,, 7 A	Canvas, flax.	
,, 8 E	Threads and twines, sewing, flax, for upholstery work (Corrigendum No. 1 of December 1935)	Saleable.
,, 34 B	Canvas, French	Saleable.
,, 36 A	Canvas, flax "C" grade. (Corrigendum No. 1 of November 1934)	Saleable.
,, 37 A	Canvas, white, unproofed, flax hemp or all hemp, for carriage cushions and seats.	
,, 38 A	Canvas, staying.	
,, 45	Dowlas 54″ wide.	
,, 46 G	Paulins.	
,, 49 A	Tape, stay, linen	Saleable.
* ,, 50	Flax Mail Bags, proofed and unproofed.	
	Hemp.	
G/Tex/H-2	Cordages and line, hemp.	
,, 3	Hemp, twine, English and Country for P. and T. Department.	
,, 6	Cash bags, tat putties.	

Specification No.	Description.	Remarks.
	TEXTILES—G—*contd.*	
	Hemp—contd.	
G/Tex/H-7 A	Rope Manila—	
	(*i*) " Special ".	
	(*ii*) " Ordinary "	Saleable.
	Jute.	
G/Tex/J-1 A	Jute twine, 1 ply, 2 ply, 3 ply, 4 ply, 5 ply and 6 ply.	
" 12 B	Jute bags unproofed for lineman tools.	
‡ " 22 C	Jute mail bags, proofed and unproofed.	
" 23 B	Jute paulins.	
" 37 A	Jute bags, " B Twill ", 44″×26½″	Saleable.
" 38	Gunny cloth for oil pressing.	
* " 39	Hessian cloth	Saleable.
	Miscellanoeus.	
G/Tex/Misc.-7	Lace, gold.	
" 25	Braid, lace and fringes, gold.	
‡ " 27 D	Leather imitation cloth for binding furniture, buttons and studs	Saleable.
" 30	Carpets, Aixminister.	
‡ " 41 B	Matting, coir. (Corrigendum No. 1 of December 1936)	Saleable.
‡ " 42 A	Mat, door, pile, coir. (Corrigendum No. 1 of December 1936)	Saleable.
‡ " 43 B	Garments, rubber, waterproof.	
" 44 A	Stuffiing, materials for mattresses, etc. (coir, kapok and cotton)	Saleable.
" 45 A	Twines, cotton, jute, hemp and flax	Saleable.
‡ " 47 A	Linolium	Saleable.
* " 49	Ropes, coir	Saleable.
	Tents and Tent Materials.	
‡ G/Tex/T-1 C	General specification for tent components.	
" 2	Swiss cottage tent, square ended.	
" 3	Hill tent.	
" 4	Tehsildar's tent.	
" 5	Raoti tent, single fly.	
" 20 A	Tent necessary.	
" 21	Miniature swiss cottage tent (round ended).	
" 22	Indian officers tent (double fly).	
" 23	Kashmere tent, round ended.	
" 24	Tents, square ended, forest officers' pattern.	
" 40	Servant's pals or shouldaries.	
" 41 A	Light field service tents, 80 lbs.	

Specification No.	Description	Remarks.
	Tents and Tent Materials.—contd.	
G/Tex/T-42 A	Field officer's kabul pals.	
,, 43 A	General service tents.	
,, 44	Sowar pal, square ended.	
,, 45 A	Survey pal, square ended.	
‡ ,, 46 D	Half pal tents and full pal tents.	
,, 47 A	Mountain battery tents.	
,, 48	Sleeping pal.	
,, 49	Hudson Raoti tent.	
‡ ,, 50 A	Shooting pal (or double fly sleeping pal) with bath-room.	
,, 51	Tents d'abre.	
,, 52	Light bath tent.	
,, 53	Staff officer's field service tent (rope ridge).	
,, 54	Elliott pattern miniature swiss cottage tents.	
,, 55	Swiss cottage tent (Police gazetted officers pattern).	
	Woollen.	
G/Tex/W-1	Wool, black and mixed, for blankets. (Addendum No. 1 of January 1935).	
,, 3 B	Drawers, worsted	Saleable.
,, 4 B	Caps, balaclava, worsted	Saleable.
,, 5 D	Jackets, cardigan, woollen	Saleable.
‡ ,, 6 E	Putties, woollen, khaki or blue	Saleable.
‡ ,, 7 D	Cloth, bunting woollen, white and coloured. (Addendum No. 1 of September 1935.) (Corrigendum No. 1 of December 1936)	Saleable.
,, 8 B	Serge, blue, medium quality and broad cloth. (Addendum No. 1 of January 1935).	
,, 10 B	Cloth, Oxford, woollen, grey. (Addendum No. 1 of February 1935)	Saleable.
,, 11 C	Flannel, silver grey	Saleable.
‡ ,, 12 C	Mittens.	
,, 13	Packing woollen yarn for main motor and suspension bearings.	
,, 16 B	Flannel, white for bandages. Addendum No. 1 of January 1935.)	
,, 18	Serge, blue, for shore and sea service. (Addendum No. 1 of January 1935.)	
,, 19	Serge, khaki. (Addendum No. 1 of January 1935.)	
,, 20 C	Socks, worsted, blue grey. (Corrigendum No. 1 of December 1933)	Saleable.
,, 21 D	Yarns, woollen	Saleable.

Specification No.		Description.	Remarks.
		TEXTILES—G—*contd.*	
		Woollen—contd.	
‡ G/Tex/W-22 C		Serges, blue	Saleable.
„	23 B	Broad cloth, woollen. (Addendum No. 1 of January 1935.)	
„	24	Flannel, green, superior quality. (Addendum No. 1 of January 1935.)	
„	25	Serges of various shades for lining. (Addendum No. 1 of January 1935.)	
„	26	Flannel, Angola (union) grey. (Addendum No. 1 of January 1935).	
„	29	Blankets, saddle.	
‡ „	30 D	Blankets, woollen scarlet	Saleable.
‡ „	31 D	Blankets, woollen, ordinary	Saleable.
‡ „	32 D	Blanket cloth	Saleable.
„	34	Yarn similar to Illingsworths Thrums for packing bearing boxes of axle generators on electric freight locomotives.	
„	36 E	Jerseys, woollen	Saleable.
„	51 A	Cloth, woollen, twill, khaki	Saleable.
„	52 C.	Felt, woollen, white, grey or dyed	Saleable.
„	53	Numdahs, felt for saddles.	
‡ „	55 A	Bannians, flannel, blue grey.	
‡ „	56 D	Trimming worsted grey and white for use in oil cups on locomotives	Saleable.
„	63	Cloth, great coat, woollen. (Addendum No. 1 of January 1935.)	
„	64	Yarn, packing, worsted white for packing bearings of electric locomotives.	

* Specifications framed during the year.
† Specifications framed and revised during the year.
‡ Specifications revised during the year.

List of Indian Stores Department Special Specifications current at the end of the year 1936-37.

Specification No.	Description.
	BRIDGEWORK.
A-31	Standard mobilization steel hutting (M. W. services).
A-32	Steel and ironwork required by the Indian Public Works Department, Delhi, for the roofing of the Assembly, the Council of State and the Council of Princes' Chambers and Library of the New Legislative Buildings, Imperial Delhi.
A-36	Special construction quarters (portable hutting), for the Lloyd Barrage Project.
A-52	Aeroplane hanger.
	ENGINEER'S PLANT.
B-48	Portable steam pumping engine equipment and hose pipe for the Bikaner Canal, Punjab.
B-49	Crane, one 7-ton Scotch hand derrick for the Irrigation Department, Punjab.
B-51	Portable hand, 5-ton operated crane for 5′-6″ gauge railway track.
B-52	Scotch hand derrick crane constructed of steel.
B-54	Steam boilers for M. E. S.
	BALLAST AND PERMANENT-WAY.
D-3	Light railway track, turntables and trucks, for military purposes.
	ROLLING STOCK.
E-30	Metre gauge steam rail motor with goods truck and goods trailer truck for the Sutlej Valley Project, Punjab Public Works Department.
E-31	Steam locomotives, 2′-0″ gauge, for the Sutlej Valley Project Bikaner Canal, Punjab Public Works Department.
E-40	Steam locomotives, 2′-0″ gauge, for the Sukkur Barrage Project.
	BUILDING.
G-Buildings 1A	Ordnance Tin Tents.
	CHEMICALS.
G-Chemicals 30	Acid, Sulphuric, Commercial 82 per cent., for the P. and T. Department.
	LAMPS AND LAMP FITTINGS.
G-Lamps 11	R. M. S. folding candle lantern for the P. and T. Department.
,, 16	Brass sealing lamp for the P. and T. Department.
,, 23	Table lamps, hanging lamp and hurricane lantern, for Director General, P. and T.
,, 24	Incandescent hurricane or hanging lantern, petrol pressure type, for the P. and T. Department.
	LEATHER AND RUBBER.
G-Leather-44	Waist, belt, leather, for P. W. D., Punjab.
,, 45	Meshas.
,, 47A	Boots, ankle (followers).

Specification No.	Description.
	LEATHER AND RUBBER—*contd.*
G-Leather-49	R. M. S. portfolio (G. pattern).
" 50	Portfolio with lock, supervising officer (for P. and T. Department).
" 51	R. M. S. Leather portfoilo fitted with compartments for stamps seals, etc.
" 52	Leather belts for G. I. P. Railway.
" 53	Derby shoes, black or brown, for E. I. Railway (Crew staff).
" 57	Leather goods for Police Department.
" 58 A	Rubber pilot balloons for air observations for the Indian Meteorological Department.
" 60	*Cancelled.*
" 62	Lace, leather for belting for G. I. P. Railway.
	METALS.
G-Metals-47	Anti-friction metal, high grade and low grade, for the Military Engineer Services.
	MISCELLANEOUS.
G-Misc.-3 A	Kit boxes for sea service for M. E. S.
" 4 A	Double security bond boxes and stamp boxes for the P. and T. Department.
" 5	Despatch boxes for the Post Master General, Bombay.
" 6 A	Safes for the D. G., P. and T. Department.
" 7 A	Tin box for insurance seal types and tin box for stamp types for R. M. S.
" 8 A	Leads seals for P. and T. Department.
" 9 A	Clocks and time-pieces for the P. and T. Department.
" 10	Tin trays to hold Rs. 1,000 and Rs. 500 for the P. and T. Department.
" 11 A	Badges, brass, for the P. and T. Department.
" 12	Letter box for the P. and T. Department.
" 13	Punching machine for the P. and T. Department.
" 14	Spear head with brass bells for the P. and T. Department.
" 16	Tin sheets for the P. and T. Department.
" 17	Brush sweeping.
" 18	Brush for painting letter boxes.
" 19 A	Brush for cleaning stamps.
" 20	Wooden blocks for label for the P. and T. Department.
" 21 B	Enamelled sheet steel signboards, letter box plates, etc., for the P. and T. Department.
" 22 A	*Cancelled.*
" 23	Tin seal holder for the P. and T. Department.
" 26 B	Crumps, adjustable proportional modules, for Irrigation Department, Punjab.

Specification No.	Description.
	MISCELLANEOUS—*contd.*
G-Misc.-33	Lead seals for the Controller of Currency.
„ 45	Brass padlocks, box locks, drawer or almirah locks for iron safes and special locks, for the P. and T. Department.
„ 46	Scales and weights for the P. and T. Department.
„ 47	Fireclay for the N. W. Railway.
„ 49	*Cancelled.*
„ 50	Hose, India rubber, delivery, armoured, 2½" bore for E. I. Railway.
„ 60	Bedsteads, all metal, Army Hospital Pattern, Mark I.
„ 65	Bicycles, Hercules single and double bar for Government Department.
	OILS, LUBRICANTS, ETC.
G/O.P. 43	Oils for use of Government Telegraph Department.
„ 67 A	Wood Tar.
„ 152	Oil, lubricating, crank chamber, high speed steam engine No. 2, for Bengal Nagpur Railway.
„ 384	Grease, machine, for E. I. Railway.
	PAINTS AND PAINTER'S MATERIALS, ETC.
G/P. 301	Green paint, special, readymixed to E. B. Railway shed.
	TOOLS.
G/Tools-4 A	*Cancelled.*
	WATER WORKS STORES.
G/W.W. 31	Wrought iron or mild steel pipes for water for the Bikaner Canal.
„ 51 A	89,000 c. ft. of rising main, special, sluice valves, air valves, etc., from Ramgarh to Jaipur for the Water Supply Scheme for Jaipur State, P. W. D.
„ 52	Distribution piping, specials, valves and accessories for the water supply scheme for the Jaipur State, P. W. D.
„ 53	Piping specials, valves and accessories for water supply, P. W. D., New Delhi.
	ELECTRICAL PLANT AND MATERIALS.
H-59	One switchboard generator panel for Ambala.
H-74 B	Zinc, circular, special design, moulded for electric cells.
H-88	Belting for train lighting dynamos for Indian Railways.
H-89 B	*Cancelled.*
H-99	Withdrawn.
H-100	Sack Negative elements size 1 and 2 for E. I. Railway.
H-101	Switchboard Ironclad A. C. Pillar type for G. I. P. Railway.
H-102	Sub-station Kiosk type for G. I. P. Railway.
H-104 A	Cables bazar, 400 volts, multicore, insulated single wire armoured for P. W. D. Electricity Branch, Punjab.

Specification No.	Description.
	ELECRTICAL PLANT AND MATERIALS—*contd.*
H-105	Insulators for P. W. D. Electricity Branch, Punjab.
H-106	Hot galvanizing for P. W. D. Elecrticity Branch, Punjab.
H-107	Electrodes for use on M. S. Bridgework for N. W. Railway.
H-108	Cables 230 volts twin core, insulated, single wire armoured domestic service leading-in cable for P. W. D., Electricity Branch, Punjab.
H-109	Conductors, solid and stranded, copper and cadmium copper for P. W. D., Electricity Branch, Punjab.
H-110	Inter-carriage electric couplers and cables for Broad Gauge Coaching Stock for N. W. Railway.
H-111	Cables, telephone, underground for P. W. D., Electricity Branch, Punjab.
H-112	Poles, tubular, steel, and its accessories for P. W. D., Electricity Branch, Punjab.
H-113 B	Inter-carriage electric couplers for Broad gauge coaching stock for N. W. Railway.
H-114	Floodlight Projector Lanterns for the illumination of Railway yards.
H-115	Alkaline cells for use on Electro-Magnetic Strain gauge Testing apparatus.
H-116	Masts Floodlight.
‡ H-117 A	Cadmium copper wire, continuously Insulated No. 12 S. W. G., line wire.
	POWER AND INDUSTRIAL PLANT.
P. I. 26	Jolly boat.
P. I. 27	Heave-up boat for the Lloyd Barrage Works, Sukkur.
P. I. 28	Heave-up boat for the Lloyd Barrage Works, Sukkur.
P. I. 36	Electric hoists or winches.
P. I. 37	Dredgers (grab type).
P. I. 41	Pile driver and frame for the Sutlej Valley Project.
P. I. 46	Steam and exhaust piping for the Nalagarh Power House.
P. I. 47	Two 25 K. W. oil engine driven generating sets and switchboard for the British Infantry Barracks, Lahore.
P. I. 48	Turbo-alternator set, condensing plant, cranes, boiler economise, pumps, steel chimney, steam and exhaust pipe work, switchboard motor converter set, rotary converters, substation plant, extra high tension feeder cables and auxiliaries, for the Public Works Department, Delhi.
P. I. 50	Concrete mixers and prime movers, required for the Bikaner Canal, Sutlej Valley Project.
P. I. 51	Stone breaker plant and screens for the Nalagarh Quarries, Sutlej Valley Irrigation Project.

Specification No.	Description.
	POWER AND INDUSTRIAL PLANT—*contd.*
P. I. 52	Generating plant, transformers, switchgear, pump, and motors, for the Nalagarh Quarries Power Plant, Punjab Irrigation Department.
P. I. 53	Generating plant, transformers, switchgear, pump and motors, for the Ferozepore Division Power Plant, Punjab Irrigation Department.
P. I. 54	Concrete mixers with motors for the Sutlej Valley Project.
P. I. 55	One 53, 4 K. V. A. oil engine driven A. C. generating set with exciter for the Northern India Salt Revenue Department, Sambhar Lake.
P. I. 56	Switchgear for the Northern India Salt Revenue Department, Sambhar Lake.
P. I. 57	A. C. motor and control gear, for the Government of India Press Simla.
P. I. 58	A. C. motors, control gear, main switchpanel, cable work and wiring for the experiment spinning plant and Technological laboratory of the Indian Central Cotton Committee, Bombay.
P. I. 59	Two 4 K. W. oil engine driven generating sets and switchboards foı the Military Works Services, Nowshera Sub-District, Northern Command.
P. I. 63	Passenger, goods and service lifts, requirred by the P. W. D., for the New Legislative Buildings, Delhi.
P. I. 64	Passenger, goods and service lifts, required by the P. W. D. for Government House, Delhi.
P. I. 66	Oil engine alternator set, water cooling plant, crane, switchgear and cables for power station, transformer switchgear and cables for a sub-station for the Lloyd Barrage Works, Sukkur.
P. I. 70	Oil engine dynamo set, main fuel tank complete with pipework water cooling plant, crane, switchgear and cables for power station and motors, control gears and cables for the Press machinery for the Government Postal Press, Aligarh.
P. I. 78	Additional oil engine alternator sets, water cooling plant, transfromers, switchgear and cables for the Power Station of the Lloyd Barrage Works, Sukkur.
P. I. 79	Concrete blockyard plant for the Lloyd Barrage Project, Sukkur.
P. I. 83	325 K. W. oil engine alternator sets, water cooling plant, oil fuel storage tank complete with pipework, crane transformer, switchgear, and connecting cables, induction motors, E. H. T. feeder cables and accessories for Power Station and Miscellaneous plant, for salt Mines, Khewra.
P. I. 84	Goods lifts for Postal Press, Aligarh.
P. I. 85	Electrically driven pumping machinery mounted on pontoons for dewatering coffer dams for the Lloyd Barrage Works, Sukkur.
P. I. 86	Oil engine driven power plant for the New Power Station, Municipal Board, Mussoorie.
P. I. 87	Plant for Hydro-electirc scheme, Municipal Board, Mussoorie.
P. I. 88	Oil engine driven power station for Jaipur.

Specification No.	Description.
	POWER AND INDUSTRIAL PLANT—*contd.*
P.I. 89	Pile driving plant mounted on pontoons for the Lloyd Barrage Works, Sukkur.
P.I. 90	Scotch derrick crane, motor driven, to lift 25 and 10 tons, on pontoons for the Lloyd Barrage Works, Sukkur.
P.I. 91	Steam driven paddle tugs for the Lloyd Barrage Works, Sukkur.
P.I. 92	Barrages for the Lloyd Barrage Works, Sukkur.
P.I. 93	Oil engine driven (diesel) Bucyrus dragline excavators, 30 B, for the Lloyd Barrage Works, Sukkur.
P.I. 94	Oil engine driven (diesel) Bucyrus dragline excavators, 50 B, for the Lloyd Barrage Works, Sukkur.
P.I. 96	Electrical plant for P. W. D., Punjab.
P.I. 97	30-B diesel engine driven Bucyrus dragline axcavators for the Lloyd Barrage Works, Sukkur.
P.I. 99	Steel barges of capacity up to 100 tons of stone for the Lloyd Barrage Works, Sukkur.
P.I. 100	50-B, diesel engine driven Bucyrus dragline excavator for the Lloyd Barrage Works, Sukkur.
P.I. 101	Sluice gates for the Panjnad Barrage on the river Sutlej, thirty three gates, clear width of opening 60′-0″, 18′-6″ deep for Punjab Public Works Department.
P.I. 102	Gates for the undersluices for the Weir across the river Damodar.
P.I. 103	250 K. W., 2,300 volts full diesel oil engine alternator sets for the P. W. D., Simla.
P.I. 104	One 600 K. W., 3,300 volts, oil engine alternator set, oil fuel service tanks, etc., for additional power station, Jaipur P. W. D.
P.I. 105	Steel barges of capacity up to 100 tons of stone for Lloyd Barrage Works, Sukkur.
P.I. 107	Three, 200 K. W., 400 volts water turbine alternator sets, etc., for the Sumera Hydro-Electric Pumping and Power Scheme for the P. W. D., United Provinces.
P.I. 108	Radial gates for the head and cross regulaters for main canal and branches of the Lloyd Barrage and Canal Construction, Sind.
P.I. 109	Sluice gates, vertical sliding and radical types for small branches, distributions and minors of the Lloyd Barrage and Canal Construction, Sind.
P.I. 115	Sea-going steam lighter for Forest Department, Port Blair.
P.I. 117	Pumping plant, oil engine driven, tube with turbine, for N. W. Railway.
P.I. 118	Pumping plant, oil engine driven, centrifugal, for N. W. Railway.
P.I. 119	Pumping plant, oil engine driven Air-Lift cum centrifugal, for N. W. Railway.
P.I. 123	Pumping plant, electrically-driven, Air-lift-*cum*-centrifugal, for N. W. Railway.

Specification No.	Description.
	POWER AND INDUSTRIAL PLANT—*contd.*
P. I. 125	A. C. motor and control gear for driving pumping plant for N. W. Railway.
P. I. 126	Control gear for the control of induction motors, for N. W. Railway.
P. I. 127	Pumps, centrifugal, A. C. motor driven for N. W. Railway.
P. I. 129	Motor alternator set with testing transformer and induction regulator for the Government Test House, Alipore, Calcutta.
	TEXTILES.
G/Tex./C-4	Cotton canvas, brown for O. and R. Railway.
„ 17 B	Capes with hoods, waterproof, for the Postal Department. (Corr. No. 1 of October 1936.)
„ 25	File bundling sheet of blue drill for the P. and T. Department.
„ 26 A	Khaki drill sacks, postman's, for the P. and T. Department.
„ 27 B	Waterproof khaki drill, delivery bag, for the P. and T. Department.
„ 29	Clothing materials for the use of the staff of the P. and T. Department.
‡ „ 32	Cape with hood, waterproof, for Bomaby Police. (Corr. No. 1. of October 1936.)
„ 72	Dosuti, grey, for Borstal Institute, Lahore.
„ 74	Turbans, khaki, for G. I. P. Railway staff.
„ 76	Dosuti, khaki, for N. W. Railway.
„ 77	Dosuti, grey, for E. I. Railway.
„ 79 B	Lungis, ordinary, for Sind Police.
„ 84	Grey drill, unbleached, for Borstal Institute, Lahore.
„ 86	Sheeting, grey, for Borstal Institute, Lahore.
„ 97	Dosuti, grey (heavy quality) for Railways.
„ 107	Flashes and belts for E. I. Railway.
„ 113	Shorts and blouses, khaki, for G. I. P. Railway.
„ 115	Red flags with letter P. W. D. for roads under repair.
„ 116 C	Badge cloth, embroidered, C. and W., for N. W. Railway.
„ 117	Ground sheets, waterproofed, for prisons, Burma, Bihar and Patna.
„ 118	Long cloth, bleached, for Government Printing and Stationery Department, Burma.
„ 119	Cloth, Holland, for N. W. Railway.
„ 120	Canvas cotton, black, for N. W. Railway.
„ 121	Bags, waterproof, for clearance of outside letter boxes.
„ 122	Long cloth, bleached, for overalls, for E. I. Railway.
„ 126	Bags kit, canvas, cotton, white, for Madras Police.
„ 128	Bags, dosuti, cotton, for the Opium Factory, Ghazipur.
„ 147	Covers, slip, for mattresses for E. I. Railway.
„ 148	Lace (tape), cotton, yellow, for Bombay City Police.

Specification No.	Description.
	TEXTILES—*contd.*
‡ G/Tex./C-151 B	Cloth, cotton, Mazri, for Zhob Militia.
‡ " 154 A	Canvas cotton, khaki, unproofed for the upper sides of carriages cushions for E. B. Railway.
G/Tex./F 48	Waterproof sheets for blankets for Assam Police.
G/Tex./J-33 A	Hand bags for R. M. S. sorters.
" 34	Canvas, jute, unproofed, for I. G., Police, Madras.
" 35	Felt, tarred, jute, for N. W. Railway.
G/Tex./Misc.-1	Waist and shoulder belts of red broad cloth for Postal Department.
‡ " 2 J	Summer uniforms for the E. I. and E. B. Railway staff.
‡ " 3 I	Winter uniforms for E. I. and E. B. Railway staff.
" 24	Clothing material for Government of India menial staff.
" 26 A	Belt, lace, for the N. W. Railway.
" 28 D.	Textile materials for Government Printing and Stationery Department, Imperial and Provincial.
" 40	Gold lace for the uniforms of Government of India menial staff.
" 46 A	Uniforms for G. I. P. Railway staff.
" 48	Uniform for Railway Police, Rajputana.
G/Tex./W-14 A	Broad cloth, dark blue, for Bombay Police.
" 15	Serge, white, for Medical and Veterinary Department. (Add. No. 1 of January 1935.)
" 17 A	Great coats with capes for mounted and foot police, Sind.
" 28 B	*Cancelled.*
" 38 A	Great coats with capes for Salt and Excise Department, Sind.
" 39	Serge, khaki, for G. I. P. Railway.
" 41	Serge, grey, for E. I. Railway.
" 50	Drab mixture great coat cloth for I. G., Prisons, Bombay.
" 57	Great coat cloth, khaki, for the Assam Police, 1, 2 and 4 Assam Rifles.
" 58	Kambalies, woollen, for Bombay Forest Department.
" 60	Great coats, foot and mounted types, for the Railway Police, Rajputana.
" 61	Blue grey hosiery worsted yarn for the Jail Department, Burma.
" 62	Lohies, natural grey, for the P. and T. Department, Kashmir.
" 65	Buntings for R. I. M. Dockyard, Bombay.
" 66	*Cancelled.*

* Specifications framed during the year.

† Specification framed and revised during the year.

‡ Specifications revised during the year.

APPENDIX XIII.

Statement showing the work done by Inspection Branch.

Value and tonnage of stores inspected and number of tests and analyses carried out.

(*Vide* paragraphs 3, 44, 51 and 55 of the Report.)

—	Value of stores inspected and charged on value.				Tonnage of stores inspected and charged on weight.				Number of tests and analyses carried out.			
	1933-34.	1934-35.	1935-36.	1936-37.	1933-34.	1934-35.	1935-36.	1936-37.	1933-34.	1934-35.	1935-36.	1936-37.
	Rs.	Rs.	Rs.	Rs.	Tons.	Tons.	Tons.	Tons.	Nos.	Nos.	Nos.	Nos.
1. Provincial Inspectorates (Calcutta, Bombay, Karachi, Upper India, Cawnpore and Madras)	4,43,01,982	5,25,02,067	6,53,54,815	5,84,79,755	37,498	52,718	67,541	62,731	..	..	..	..
2. Metallurgical Inspectorate	3,63,523	11,33,588	22,76,741	13,39,101	217,335	271,144	327,467	273,644	8,019	8,184	10,731	9,202
3. Government Test House, Alipore	..	..	..	..	..	..	..	..	7,480	8,413	8,329	9,026
Total ..	4,46,65,505	5,36,35,655	6,76,31,556	5,98,18,856	254,833	323,862	395,008	336,375	15,499	16,597	19,060	18,228
Deduct tests carried out for the Indian Stores Department.									4,627	5,163	5,342	5,686
Net Total ..									10,872	11,434	13,718	12,542

Note I.—For fees earned see Appendix XIX.

Note II.—In addition to the items of work shown against the Metallurgical Inspectorate 47,710 coils of cables manufactured at the works of the Indian Cable Co. were inspected against 65,673 coils in 1935-36.

APPENDIX XIV.

Statement showing inspection work carried out for various authorities (material charged on value).

(*Vide* paragraphs 3, 44 and 51 of the Report.)

Authorities on whose behalf stores were inspected.	Calcutta Inspection Circle.				Bombay Inspection Circle.				Karachi Inspection Circle.				Upper India Inspection Circle.				Cawnpore Inspection Branch.				Madras Inspection Branch.				Total stores charged on value inspected by Provincial Inspectorates.				Metallurgical Inspectorate, Tatanagar.				Total stores inspected an	
	1933-34.	1934-35.	1935-36.	1936-37.	1933-34.	1934-35.	1935-36.	1936-37.	1933-34.	1934-35.	1935-36.	1936-37.	1933-34.	1934-35.	1935-36.	1936-37.	1933-34.	1934-35.	1935-36.	1936-37.	1933-34.	1934-35.	1935-36.	1936-37.	1933-34.	1934-35.	1935-36.	1936-37.	1933-34.	1934-35.	1935-36.	1936-37.	1933-34.	1934-35.
Stores purchased by other Departments which were only inspected by the Indian Stores Department.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1. Central Government Departments, Civil	..	..	1,062	..	..	5,965	5,483	5,366	..	..	..	..	9,500	..	..	7,500	..	..	..	..	..	..	..	..	9,500	5,965	6,545	12,866	..	..	2,506	8,833	9,500	5,965
2. Central Government Departments, Military	..	..	..	..	2,322	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2,322	..	..	..	12,120	103	69	..	14,442	103
3. Railways, State-worked ..	1,11,13,215	78,46,552	1,23,52,850	53,58,867	1,48,571	2,10,555	7,78,722	4,81,886	13,471	12,269	..	68,802	2,624	..	350	..	..	..	2,645	..	..	..	..	..	1,12,77,881	80,69,376	1,31,34,567	59,09,555	..	..	..	..	1,12,77,881	80,69,376
4. Railways, Company-worked..	17,99,465	65,51,123	47,28,491	51,80,461	13,11,646	13,39,053	14,48,665	1,01,807	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	31,11,111	78,90,176	61,77,156	52,82,268	27,297	27,597	..	..	31,38,408	79,17,773
5. Railways worked by Indian States	1,35,872	1,70,191	80,200	1,52,061	47,322	74,179	20,022	96,044	1,380	43,678	362	12,951	..	..	..	..	..	..	..	..	..	..	..	..	1,84,574	2,88,048	1,00,584	2,61,056	..	..	..	..	1,84,574	2,88,048
Total Railway Administrations	1,30,48,552	1,45,67,866	1,71,61,541	1,06,91,389	15,07,539	16,23,787	22,47,409	6,79,737	14,851	55,947	362	81,753	2,624	..	350	..	..	..	2,645	..	..	..	..	..	1,45,73,566	1,62,47,600	1,94,12,307	1,14,52,879	27,297	27,597	..	..	1,46,00,863	1,62,75,197
6. Provincial Governments ..	2,17,546	2,33,443	2,24,334	1,08,706	40,149	2,584	205	48,341	..	..	..	..	734	1,366	30,204	1,110	..	..	..	..	..	..	..	..	2,58,429	2,37,393	2,54,743	1,58,157	..	44,856	4,82,130	13,959	2,58,429	2,82,249
7. *Quasi*-Public Bodies ..	..	..	17,445	..	..	9,545	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9,545	17,445	..	..	..	..	..	..	9,545
8. Private concerns and Indian States.	2,774	7,784	6,270	4,705	704	243	..	1,735	47,624	..	83,500	34,000	..	38,444	..	..	..	..	..	16,800	12,204	13,350	34,802	25,402	63,306	59,821	1,24,572	82,642	12,790	12,264	*—23,360	..	76,096	72,085
9. Foreign Governments and Public Bodies	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7,511	3,814	5,699	5,320	..	..	..	..	7,511	3,814	5,699	5,320	..	..	..	..	7,511	3,814
Total—Orders placed by other Departments and Inspected by the Indian Stores Department.	1,32,68,872	1,48,09,093	1,74,10,652	1,08,04,800	15,50,714	16,42,124	22,53,097	7,35,179	62,475	55,947	83,862	1,15,753	12,858	39,810	30,554	8,610	7,511	3,814	8,344	22,120	12,204	13,350	34,802	25,402	1,49,14,634	1,65,64,138	1,98,21,311	1,17,11,864	52,207	84,820	4,61,345	22,792	1,49,66,841	1,66,48,95
The value of stores inspected against orders placed by the Indian Stores Department.																									2,93,87,348	3,59,37,929	4,55,33,504	4,67,67,891	3,11,316	10,48,768	18,15,396	13,16,309	2,96,98,664	3,69,86,69
GRAND TOTAL ..																									4,43,01,982	5,25,02,067	6,53,54,815	5,84,79,755	3,63,523	11,33,588	22,76,741	13,39,101	4,46,65,505	5,36,35,65

*This minus figure is due to readjustment of Rs. 23,669 relating to a transaction made in 1934-35. The actual amount relating to the year 1935-36 was Rs. 309.

APPENDIX XV.

Statement showing inspection work carried out for various authorities which is charged on weight.

(*Vide* paragraphs 3, 44 and 51 of the Report.)

Authorities on whose behalf stores were inspected.	Calcutta Inspection Circle.				Bombay Inspection Circle.				Karachi Inspection Circle.				Cawnpore Inspection Branch.				Total Provincial Inspectorates.				Metallurgical Inspectorate, Tatanagar.				Total tonnage of stores inspected and charged on weight.			
	1933-34.	1934-35.	1935-36.	1936-37.	1933-34.	1934-35.	1935-36.	1936-37.	1933-34.	1934-35.	1935-36.	1936-37.	1933-34.	1934-35.	1935-36.	1936-37.	1933-34.	1934-35.	1935-36.	1936-37.	1933-34.	1934-35.	1935-36.	1936-37.	1933-34.	1934-35.	1935-36.	1936-37.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1. Central Government Departments, Civil	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3,235	53	..	..	3,235	53
2. Central Government Departments, Military	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	..	..	..	10	..	..
3. Railways, State-worked	27,483	40,087	62,320	54,775	..	..	..	..	..	..	..	13	..	..	..	691	27,483	40,087	62,320	55,479	25,195	79,116	72,263	62,563	52,678	1,19,203	1,34,583	1,18,042
4. Railways, Company-worked	9,186	10,849	4,695	6,705	..	..	..	..	..	..	..	..	..	..	..	..	9,186	10,849	4,695	6,705	15,092	14,874	20,978	30,378	24,278	25,723	25,673	37,083
5. Railways worked by Indian States ..	..	313	88	..	..	2	..	..	..	..	..	..	..	..	..	..	..	315	88	..	1,557	26	2,391	1,110	1,557	341	2,479	1,110
Total Railway Administrations ..	36,669	51,249	67,103	61,480	..	2	..	..	..	..	..	13	..	..	..	691	36,669	51,251	67,103	62,184	41,844	94,016	95,632	94,051	78,513	1,45,267	1,62,735	1,56,235
6. Provincial Governments	12	404	..	66	..	..	..	..	..	..	..	..	..	..	..	..	12	404	..	66	..	..	..	..	12	404	..	66
7. *Quasi*-Public Bodies	..	..	..	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	30	..	..	..	..	..	..	..	30
8. Private concerns and Indian States ..	43	133	66	285	560	413	264	96	..	..	..	..	..	..	..	..	603	546	330	381	1,75,491	1,77,118	2,28,600	1,79,540	1,76,094	1,77,664	2,28,930	1,79,921
9. Foreign Governments and Public Bodies	214	517	108	70	..	..	..	..	..	..	..	..	..	..	..	..	214	517	108	70	..	..	..	..	214	517	108	70
Total ..	36,938	52,303	67,277	61,931	560	415	264	96	..	..	..	13	..	..	..	691	37,498	52,718	67,541	62,731	2,17,335	2,71,144	3,27,467	2,73,644	2,54,833	3,23,862	3,95,008	3,36,375

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Total ..	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

APPENDIX XVI.

Statement showing the particulars of work done in each Inspectorate.

(*Vide* paragraphs 3 and 44 of the Report.)

Name of Circle. (1)	No. of orders received for Inspection. (2)				Amount of orders received for Inspection chargeable on value. (3)				Tonnage of material inspected on weight basis. (4)			
	1933-34.	1934-35.	1935-36.	1936-37.	1933-34.	1934-35.	1935-36.	1936-37.	1933-34.	1934-35.	1935-36.	1936-37.
	Nos.	Nos.	Nos.	Nos.	Rs.	Rs.	Rs.	Rs.	Tons.	Tons.	Tons.	Tons.
Calcutta Inspection Circle. ..	21,145	26,095	28,660	29,860	3,20,78,709	3,44,93,823	4,34,18,904	6,14,46,243	36,938	52,303	67,277	61,931
Bombay Inspection Circle ..	10,567	11,998	14,913	15,762	92,46,936	88,73,516	1,29,95,685	1,14,01,409	560	415	264	96
Karachi Inspection Circle ..	5,688	6,782	7,908	8,278	42,41,596	57,71,606	66,61,438	64,96,546	..	..	..	13
Upper India Inspection Circle	2,706	4,083	5,680	5,703	43,93,335	44,30,409	58,98,770	54,13,174	..	..	..	..
Cawnpore Inspection Branch ..	2,418	2,848	3,136	2,967	14,52,085	15,88,673	22,78,349	17,36,625	..	..	..	691
Madras Inspection Branch ..	3,460	3,544	4,089	4,168	16,35,714	14,30,174	15,08,761	15,20,733	..	..	..	..
Total Provincial Inspectorates.	45,984	55,350	64,386	66,738	5,30,48,375	5,65,88,201	7,27,61,907	8,80,14,730	37,498	52,718	67,541	62,731

APPENDIX XVII.

Statement showing the number of tests and analyses carried out for various authorities.

(*Vide* paragraphs 3, 51, and 55 of the Report.)

Authorities on whose behalf tests, analyses, etc., were carried out.	Metallurgical Inspectorate, Tatanagar.				Government Test House, Alipore.				Total numeber of tests and analyses carried out.			
	1933-34.	1934-35.	1935-36.	1936-37.	1933-34.	1934-35.	1935-36	1936-37.	1933-34.	1934-35.	1935-36.	1936-37.
For the Indian Stores Department	24	22	9	14	4,603	5,141	5,333	5,672	4,627	5,163	5,342	5,686
Outside authorities—												
1. Central Government, Civil	16	3	..	6	143	158	210	262	159	161	210	268
2. Central Government, Military	2	1	..	..	539	403	223	405	541	404	223	405
3. Railways, State-worked	66	29	61	20	491	451	475	371	557	480	536	391
4. Railways, Company-worked	20	72	67	16	169	307	121	303	189	379	188	319
5. Railways worked by Indian States	..	2	..	4	38	47	70	47	38	49	70	51
Total Railway Administrations	86	103	128	40	698	805	666	721	784	908	794	761
6. Provincial Governments	11	4	1	1	140	322	253	244	151	326	254	245
7. *Quasi*-Public bodies	..	3	..	..	136	97	139	242	136	100	139	242
8. Private concerns and Indian States	7,880	8,048	10,593	9,141	1,221	1,487	1,505	1,480	9,101	9,535	12,098	10,621
Total ..	8,019	8,184	10,731	9,202	7,480	8,413	8,329	9,026	15,499	16,597	19,060	18,228

APPENDIX XVIII.

tement showing the articles tested in the Government Test House, during the year ***1936-37.***

(*Vide* paragraphs 3 and 55 of the Report.)

ial No.	Articles.	Serial No.	Articles.
1	Accessories, electrical.	39	Concrete.
2	Acids.	40	Copper, plates, bars, etc.
3	Alumina ferric.	41	Cordages, cotton, flax and jute.
4	Aluminium sulphate	42	Cotton, absorbent.
5	Ammonium chloride.	43	Coupler, train lighting.
6	Antimony.	44	Deposits.
7	Arrowroot.	45	Disinfectant.
8	Asbestos sheet.	46	Dogspike.
9	Asbestos steam jointing.	47	Drillings.
10	Asphalt.	48	Dubbin.
11	Axe handle, wooden.	49	Electrodes.
12	Barium hydrate.	50	Emery cloth.
13	Barytes.	51	Fabrics, cotton.
14	Batteries.	52	Fabrics, woollen.
15	Bauxite.	53	Fans and regulators.
16	Belting.	54	Felspar.
17	Benzene.	55	Files of sorts and sizes.
18	Bitumen.	56	Fire extinguisher.
19	Boiler, compound.	57	Fittings, A. V. B.
20	Bolts.	58	Fittings, electric.
21	Borax.	59	Flash point apparatus.
22	Box axle.	60	Flying suit for Aircraft pilot.
23	Brass.	61	Gas, acetylene.
24	Bricks.	62	Gauges, pressure, steam and vacuum.
25	Brushes, wire.	63	Glass paper.
26	Cables.	64	Glass tumbler.
27	Cakes, vegetable.	65	Glass wire.
28	Calcium carbide.	66	Glucose.
29	Candle, wax.	67	Graphite.
30	Canvas.	68	Grease.
31	Cells.	69	Hammer, steel.
32	Cement.	70	Handles, wooden.
33	Chain.	71	Hinges, brass.
34	Chemicals.	72	Hooks, drawbar.
35	Clay.	73	Hurricane lantern.
36	Coal.	74	Ingot.
37	Coal tar.	75	Insulating tape.
38	Coke.	76	Insulator.

Serial No.	Articles.
77	Iron.
78	Jar, stoneware.
79	Knives.
80	Lamps, electric.
81	Lead.
82	Leather.
83	Lime.
84	Limestone.
85	Manganese ore.
86	Manure.
87	Marble.
88	Metal, antifriction.
89	Metal, type.
90	Meter house service.
91	Micrometer.
92	Mineral jelly.
93	Mud.
94	Nuts.
95	Oii, creosote.
96	Oil, fish.
97	Oil, fuel.
98	Oil, kerosene.
99.	Oil, lubricating.
100	Oil, transformer.
101	Oil, vegetable.
102	Paints and pigments.
103	Petrol.
104	Phenyle.
105	Plumbago.
106	Pipes, gas quality.
107	Pipes, hose, galvanised.
108	Pipes, stoneware.
109	Pipes, wrought iron with fittings.
110	Pitch.
111	Polishes, French.
112	Polishes, leather.
113	Polishes, metal.
114	Quinine.
115	Rail anchor
116	Rail steel.
117	Ropes, metallic.
118	Ropes, non-metallic.
119	Rosin.
120	Rubber jointing.
121	Safolene.
122	Salt.
123	Sand.
124	Scales.
125	Scissors.
126	Screw-coupling.
127	Sheets, corrugated, M. S.
128	Shellac.
129	Silver.
130	Sleepers.
131	Soap.
132	Soda, caustic.
133	Soldering chemicals.
134	Spirit, methylated.
135	Steam jointing.
136	Steel.
137	Stone.
138	Sulphate of copper.
139	Sulphur.
140	Surki.
141	Talc.
142	Tallow.
143	Tape newar.
144	Threads.
145	Tiles.
146	Tin.
147	Turpentine.
148	Twines.
149	Valve, sluice.
150	Valve wheel.
151	Varnishes.
152	Water.
153	Water cock.
154	Wax.
155	Wires.
156	Wood preservative.
157	Yarn, cotton and silk.
158	Zinc.

APPENDIX XIX.

Income and Expenditure Accounts of the Indian Stores Department for the years 1933-34, 1934-35, 1935-36 and 1936-37. (Vide *paragraphs 7 and 71 of the Report.*)

Particulars.	Amount.											
	1933-34.			1934-35.			1935-36.			1936-37.		
	Commercial.	Non-Commercial.	Total.	Commercial.	Non-Commercial.	Total.	Commercial.	Non-Commercial.	Total.	Commercial.	Non-Commercial.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1. By 1% purchase fees ..	3,51,840	..	3,51,840	4,39,566	..	4,39,566	5,55,071	..	5,55,071	5,05,689	..	5,05,689
2. By 1% inspection fees ..	2,87,518	..	2,87,518	3,61,831	..	3,61,831	4,73,489	..	4,73,489	4,80,842	..	4,80,842
3. By recoveries on account of fees for tests, inspections, etc., made from Government Departments, Railways, private firms and individuals	4,43,340	73,615	5,16,955	5,79,028	97,079	6,76,107	6,92,506	85,612	7,78,118	5,30,601	90,010	6,20,611
4. By miscellaneous receipts ..	39,690	1,488	41,178	46,175	227	46,402	47,821	514	48,335	54,713	353	55,066
*5. By charges for tests, etc., adjusted between commercial and non-commercial branches of the Department ..	(a) 3,017	(a) 89,382	..	(a) 2,775	(a) 1,01,078	..	(a) 8,074	(a) 1,14,419	..	(a) 1,811	(a) 1,27,912	..
Total receipts ..	11,25,405	1,64,485	11,97,491	14,29,375	1,98,384	15,23,906	17,76,961	2,00,545	18,55,013	15,73,656	2,18,275	16,62,208
1. Pay of Officers	5,33,579	1,22,220	6,55,799	5,77,429	1,17,318	6,94,747	6,12,322	1,34,412	7,46,734	6,04,705	1,32,740	7,37,445
2. Pay of Establishment ..	5,52,637	1,66,771	7,19,408	5,77,984	1,72,135	7,50,119	6,17,006	1,84,301	8,01,307	6,47,221	1,93,326	8,40,547
3. Allowances	1,52,340	24,209	1,76,549	1,58,489	21,196	1,79,685	1,65,371	24,711	1,90,082	1,65,596	24,744	1,90,340
4. Grants-in-aid	..	..	..	..	..	..	..	..	..	..	..	..
5. *Supplies and Services*—												
(a) Expenditure in India ..	49,485	16,913	66,398	61,368	30,655	92,023	76,354	24,075	1,00,429	65,839	20,676	86,515
Deduct amount treated as capital expenditure ..	1,592	3,413	5,005	1,431	16,498	17,929	870	10,996	11,866	2,026	695	2,721
Total ..	47,893	13,500	61,393	59,937	14,157	74,094	75,484	13,079	88,563	63,813	19,981	83,794
(b) Expenditure in England—												
(i) On stores	4,753	357	5,110	16	176	192	..	9,639	9,639	722	409	1,131
(ii) On inspections on behalf of non-commercial civil Deptts. of the Central Government	148	..	148	240	..	240	573	..	573	3,727	..	3,727
Total supplies and services (excluding amount treated as capital expenditure)	52,794	13,857	66,651	60,193	14,333	74,526	76,057	22,718	98,775	68,262	20,390	88,652
6. Contingencies	72,510	22,072	94,582	78,306	23,655	1,01,961	77,370	24,433	1,01,803	84,281	26,196	1,10,477
Deduct amount treated as capital expenditure ..	101	..	101	..	..	..	..	..	..	1,325	..	1,325
7. Works (including petty construction and repairs) ..	7,907	2,281	10,188	7,659	5,562	13,221	5,193	2,293	7,486	4,878	2,296	7,174
Deduct amount treated as capital expenditure ..	205	150	355	582	..	582	320	..	320	..	..	..
Total ..	7,702	2,131	9,833	7,077	5,562	12,639	4,873	2,293	7,166	4,878	2,296	7,174
8. Loss or gain by exchange (included with the cost of stores in the Profit and Loss Account)	..	..	..	—46	..	—46	..	—16	—16	—4	..	—4
9. Total direct expenditure charged to Indian grant (excluding expenditure in England)	13,68,458	3,54,466	17,22,924	14,61,189	3,70,521	18,31,710	15,53,616	3,94,209	19,47,825	15,72,516	3,99,978	19,72,494
Deduct amount treated as capital expenditure and loss or gain by Exchange	1,898	3,563	5,461	1,967	16,498	18,465	1,190	10,980	12,170	3,347	695	4,042
10. Net direct Expenditure ..	13,66,560	3,50,903	17,17,463	14,59,222	3,54,023	18,13,245	15,52,426	3,83,229	19,35,655	15,69,169	3,99,283	19,68,452
11. Expenditure in England [item 5(b)]	4,901	357	5,258	256	176	432	573	9,639	10,212	4,449	409	4,858
12. Leave salary and Overseas Pay paid in England ..	63,746	10,786	74,532	38,095	21,713	59,808	54,418	19,120	73,538	52,692	18,514	(b) 71,206
13. Pensionary charges ..	56,564	10,598	67,162	57,682	10,740	68,422	59,233	11,282	70,515	59,486	11,331	70,817
14. Government contribution to Provident Fund	43,391	13,957	57,348	44,938	12,781	57,719	45,079	14,236	59,315	45,523	14,376	59,899
15. Interest on capital outlay ..	27,840	37,075	64,915	27,742	37,285	65,027	27,727	36,754	64,481	27,148	35,987	63,135
16. Depreciation charges ..	14,153	12,301	26,454	13,792	11,750	25,542	14,038	11,958	25,996	13,645	11,624	25,269
17. Stationery and Printing ..	35,759	7,946	43,705	36,228	8,053	44,281	33,906	7,953	41,859	47,174	11,065	58,239
18. Cost of Audit and Accounts	1,85,517	20,613	2,06,130	2,02,212	22,468	2,24,680	2,20,791	24,532	2,45,323	2,34,018	26,002	2,60,020
19. Expenditure on Retrenched Personnel	6,649	59	6,708	4,729	..	4,729	..	..	..	..	..	..
*20. Services rendered by non-commercial branches to commercial branches and *vice versa*	(a) 86,105	(a) 6,294	..	(a) 97,295	(a) 6,558	..	(a) 1,13,918	(a) 8,575	..	(a) 1,20,642	(a) 9,081	..
Total expenditure ..	18,91,185	4,70,889	22,69,675	19,82,191	4,85,547	23,63,885	21,22,109	5,27,278	25,26,894	21,73,946	5,37,672	25,81,895
Deficit	7,65,780	3,06,404	10,72,184	5,52,816	2,87,163	8,39,979	3,45,148	3,26,733	6,71,881	6,00,290	3,19,397	9,19,687

*(a) As these figures represent adjustments within the Department they have not been shown in the column representing totals for the Department as a whole.

(b) Includes Rs. 22,907 on account of the deputation pay of Sir James Pitkeathly and Mr. H. F. Davy in connection with the work of the London Store Department.

Certified that audit has obtained all the information and explanations required, that the statement of affairs has been drawn up according to the existing orders and presents a correct view of the affairs of the Indian Stores Department according to the best of my knowledge and belief and the information supplied to me from time to time.

The 21st June 1937.

ISHWAR DAYAL,
Audit Officer, Indian Stores Department.

M49ISD

APPENDIX XX.

Statement of the work done by the Indian Stores Department, year by year, since its constitution. (Vide *paragraphs 2, 3 and 7 of the Report.*)

Year. 1	Value of textile stores and leather goods purchased. 2	Value of Engineering and miscellaneous stores purchased. 3	Total value of stores purchased. 4	Amount of stores inspected and charged on value. 5	Tonnage of stores inspected and charged on weight. 6	Tests and analyses carried out. 7
	Rs.	Rs.	Rs.	Rs.	Tons.	Nos.
1921-22 (January-March 1922)	59,27,330	..	59,27,330	..	..	..
1922-23	1,64,78,305	..	1,64,78,305	1,42,79,333	1,07,648	5,744
1923-24	1,17,08,745	50,15,656	1,67,24,401	2,21,45,403	1,71,797	7,364
1924-25	1,33,26,953	1,25,84,188	2,59,11,141	2,13,73,382	2,51,760	9,989
1925-26	1,18,81,516	1,47,86,417	2,66,67,933	3,98,78,885	2,92,550	9,932
1926-27	1,62,86,293	2,35,95,952	3,98,82,245	5,19,88,643	3,36,368	12,354
1927-28	1,18,82,009	2,54,22,663	3,73,04,672	5,71,10,815	3,31,628	13,065
1928-29	1,16,24,973	2,44,23,101	3,60,48,074	5,42,33,106	2,18,764	12,953
1929-30	1,13,36,292	3,15,89,409	4,29,25,701	7,47,99,137	3,43,109	14,273
1930-31	98,37,157	2,78,45,539	3,76,82,696	6,61,19,542	3,28,020	16,256
1931-32	1,06,14,978	2,53,85,028	3,60,00,006	4,84,21,867	3,10,504	14,401
1932-33	79,12,155	2,51,78,748	3,30,90,903	3,54,07,609	1,56,203	11,512
1933-34	85,55,361	2,74,38,774	3,59,94,135	4,46,65,505	2,54,833	15,499
1934-35	95,85,357	3,80,50,894	4,76,36,251	5,36,35,655	3,23,862	16,597
1935-36	99,22,244	4,59,82,622	5,59,04,866	6,76,31,556	3,95,008	19,060
1936-37	1,15,12,129	5,33,94,405	6,49,06,534	5,98,18,856	3,36,375	18,228
Total from 1st January 1922 to 31st March 1937 ..	17,83,91,797	38,06,93,396	55,90,85,193	71,15,09,294	41,58,429	1,97,227

NOTE.—For Fees earned see Appendix XIX.

INDEX.

Paragraphs.

F

G

H

I

Paragraphs.

Paragraphs.

M49ISD—485—25-9-37—GIPS